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THE CHEMIST AND DRUGGIST

ESTAB. 1859

REGISTERED AS A NEWSPAPER.

TELEPHONE: CENTRAL 3617.
TELEGRAMS: "CHEMICUS, CANNON, LONDON" (2 Words).

PUBLISHED WEEKLY AT 42 CANNON ST., LONDON, E.C.4.

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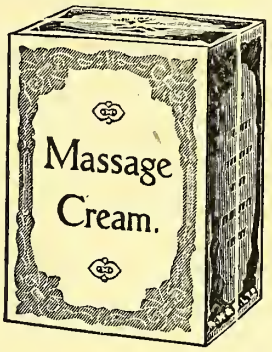

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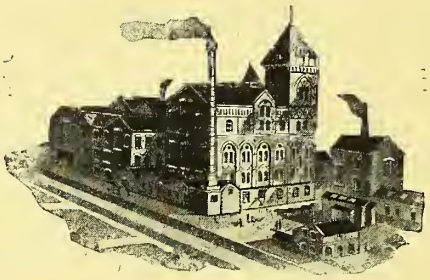

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Methyl Salicylate Water-White } In Carboys: or Cases of 12 × 5 lb. Bottles.

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We wish you to understand the advantage of being able to purchase nearly all your requirements in glassware, whether for commercial, chemical, laboratory or scientific use, from the firm who can supply such requisites from stock, whether you reside in London or the provinces. Send us your enquiries.

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MEDICALS.
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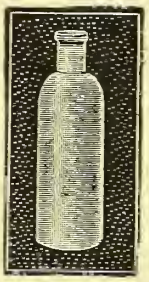

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SURGICAL GLASSES.

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TEST TUBES, VIALS, BURETTES, SYRINGES, &c.

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TUBES OF ALL SIZES.

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Maw's Page

July 9, 1921 No. 508

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THREE generations of pharmacists have been served by the House of Maw. Three generations have associated the name of Maw with quality, reliability and dignified business methods. Three generations have appreciated the unswerving loyalty of the House to the retail pharmacist.

Protect yourself and your profession.
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Government Certified.

Manufacturers of Clinical Thermometers for over 60 years.

CONTRACTORS TO ALL GOVERNMENT DEPARTMENTS.

PATENT

The "ACCOSON" Aseptic Clinical Thermometer.

DO NOT FAIL TO STOCK THIS LINE! EVERY DOCTOR WILL BE ASKING FOR IT!!

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Take out a

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Which covers them all

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VICTORIA EMBANKMENT,
Next TEMPLE STATION, W.C.2.

ANNUAL BONUSES

We are now manufacturing

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which easily surpasses Aluminium for

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The Prices are just as attractive.

Our exhibition of these new imitation gold boxes at the Chemists' Exhibition was a great success. A sample will be sent free to any interested wholesaler or manufacturer.

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Eases tired, aching feet, corrects flat or weak foot, etc.; comfortable to wear in ordinary size footwear. Retail, **10/6** per pair.

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Sizes 34, 36, 38, 40, 42 and 44 inches over waistcoat.
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The Will C. Flahey Advertising Service—a complete expert organisation, can help you right from the moment when you realise the great importance of good advertising to your business. Honest, unbiased advice will be given upon small or large propositions. We strongly oppose waste in advertising—we get big results by "copy," not by weight of money. We will submit examples, written for your products, quite without obligation, in order to prove the merits of our work.

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desire to thank the many visitors at the

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for their generous appreciation of their new PERFUME

A SUMMER NIGHT

("Like a Garden in the Gloaming").

To any Chemist or Parfumeur who has not yet sampled this new product, a testing bottle (with details of Handwritten Showcard) will be sent on application, together with terms.

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Non-Inflammable. *Superfine Cut.*

FREE with 3 doz. Combs

WHOLESALE PRICES:
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Glass - Fronted Showcase with 3 dozen Combs.

5 % Discount. Cash with Order. Carriage Paid.

Monthly accounts opened if desired.

Every variety of Combs and Brushware in Stock.

Sole Manufacturers—

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The Original & Successful Remedy for PYORRHŒA

Prescribed by the Dental Profession.

PRICES.

	Wholesale (including Government Duty)		Retail	
Dental Paste	22/- per doz.	,, 6d.	2/6	per tube
Mouth Wash	44/- & 27/- ,,	,, 1/-	5/- & 3/-	,, bottle
Special Brush	24/- per doz.		2/6	each
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AYRTON'S WEEKLY

PAGE 15

EVERY CINEMA PATRON

in your town is a potential customer of yours.

Perhaps you already exhibit on the screen in your local cinema ; if so, you are one of the many far-seeing business men who recognise the immense possibilities of the Cinema Screen as an aid to "more business." If you are an exhibitor—and also if not—may we send you a copy of our leaflet, "Screen Ads," which gives full particulars of the

"AYRTON" LANTERN SLIDE SERVICE.

It enables the chemist to obtain, *free of charge*, artistic, sales-compelling Lantern Slides bearing his name and address.

With an order for six dozen of any of the undermentioned "Ayrton" Preparations we will send, absolutely free of charge, one of these artistic hand-coloured Slides.

AYRTON'S COCOANUT OIL SHAMPOO
P.A.T.A. Retail per bottle, **2/3** ; Wholesale per dozen, **16/6**

AYRTON'S C.N.O. (Cocoanut Oil Shampoo) TABLETS
P.A.T.A. Retail per carton, **1/3** ; Wholesale per dozen, **10/-** ; per gross, **114/-**

AYRTON'S FIGOLETS
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P.A.T.A. Retail **1/9** ; Wholesale per dozen, **14/-**

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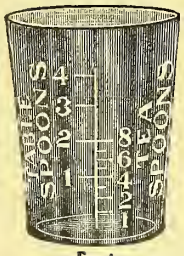
P.A.T.A. Retail **1/6** ; Wholesale per dozen, **12/-**

Bonus of one dozen given with every order for one gross of any of the above-mentioned articles, and your agreement to make a window display for two weeks.

Orders £5 value Carriage Paid.

AYRTON, SAUNDERS & CO. LTD

Manufacturing Chemists **Hanover Street, LIVERPOOL**



Front

"Telph" Ideal Medicine Glasses

White Enamel Graduations
In Cartons of 1 dozen each.

REGISTERED Telph TRADE MARK

Chemist's Own Name
From 3 dozen upwards named.

Back

Best Medicine Glass value in the World. Supplied with or without Chemist's Name.

No charge for Name plates up to 36 letters. Indents through Merchant Shippers only.

Quality Tells!

WHOLESALE & EXPORT.

PRICES WITH SAMPLE, POST FREE ON APPLICATION.
Chemists should specify "Telph" when ordering Medicine Tumblers through the Wholesale.
"Telph" quality is not at all expensive. None genuine without Registered Trade Mark Label.

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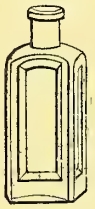

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Medical Flats, Panels, Vials, Poisons.
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Wholesale and Export. *Samples and Prices on Application.*

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GLASS BOTTLES for ALL TRADES, at CUT PRICES, IN STOCK.

ESTABLISHED 1880.

TRADE MARK

Limes, Kalis, Essences, Panelled and Plain Flats, Ovals, Mexicans, Medicals, Lubins, Poisons, Corn Solvents, Salines, Carlsbad Squares (with and without Stoppers), Mag. Cits. Rounds, Lysol Bottles in fine Amber, Tablet Bottles, Provence Oil Bottles, Fancy Salad Creams, &c. &c.

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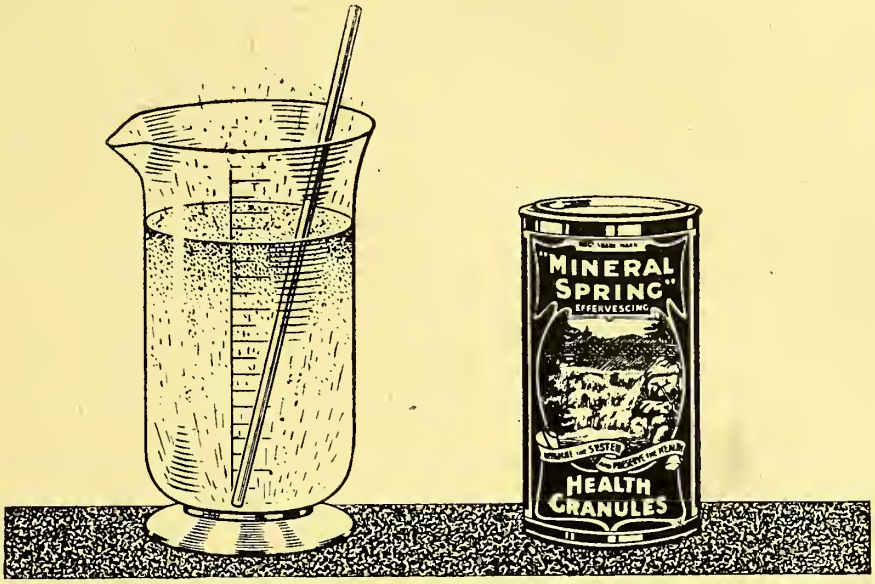

Make this personal test

in your Pharmacy of the superiority of

MINERAL TRADE MARK SPRING

MIX a glass of "Mineral Spring" and a glass of your next best saline. Note the longer effervescence of "Mineral Spring," its sparkling clearness and absence of "froth."

Taste the two beverages after the effervescence has subsided—taste them again five, ten, and fifteen minutes after mixing. The continued freshness of "Mineral Spring" will surprise you if you have never made this test before.

Compare them from any other points of view that occur to you—attractiveness, value to the public, value to the trade, keeping qualities—whatever your line of investigation, you must ultimately arrive at one conclusion—the pre-eminence of "Mineral Spring."

In 1/- and 2/- tins (P.A.T.A. min.) trade prices, 8/- and 16/- per dozen respectively.

THOMAS KERFOOT & Co. LTD.,
BARDSLEY VALE, LANCASHIRE,
& Bardsley House, London, N.1
ESTABLISHED 1797.

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ROBERTS' ORIGINAL
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BOTTLE-FILLING MACHINES

"NELSON."

Don't waste money on imitations, buy **Roberts' Machines** which actually **Created the Records** for **CLEANLINESS SIMPLICITY and Rapidity in Bottle Filling.**

NOTE the Address :

ROBERTS' PATENT FILLING MACHINE Co.
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Our latest patent "Alpha," price **£14**, will fill 10 gross bottles per hour.

Write for Particulars. *All rights reserved.*

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(Successor to Herbert M. Longcroft & Co., Ltd.)

CAPPING SKINS
BOTTLES of all kinds
HYPODERMIC SYRINGES
CHEMISTS' SUNDRIES

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Wm. FOX & SONS
Wholesale Botanical Druggists
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¶ There are two reasons for the enormous sales of "Fairy Dyes." One is inside the packet—the goodness of the Dyes—their reliability and their low cost. The other is that we spare no effort or expense to advertise them well.

¶ In every leading Ladies' Weekly and Monthly throughout Great Britain clever "copy" and striking illustrations are convincing the public of the superiority and economy of using "Fairy Dyes" and no others for every home need.

Fairy Dyes

¶ Do you want to increase your sales, your repeat orders, your turnover, with a dye that is easy to sell because it is so simple and so easy to use? There is a choice of twenty-two shades suitable for cottons, woollens, linens or silk, and already "Fairy Dyes" are recognised to be most reliable and economical.

¶ Send us your order now. It is too late when you learn that your competitor has been doing great business with "Fairy Dyes," for the demand for "Fairies" is already very great and growing, and the man who has them in stock is the man who scores. The selling price is 2d. per packet and the public want them from *you.*

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Regd. Office : 20 RENFREW STREET, GLASGOW.
Telegrams : "Fairyland Glasgow." *Phone :* 1902 Douglas.
LONDON DEPOT : 292 Upper Street, ISLINGTON, N.1

P.A.T.A. NOTICE.

18 Tavistock Square, W.C. 1

July 8th, 1921.

The ANNUAL MEETING of the Proprietary Articles Trade Association will be held at the

HOLBORN RESTAURANT

ON

Thursday, July 14, at 3 p.m.

The customary Report of the Council on the Association's work for the past year will be presented.

All members are invited to attend.

W. S. GLYN-JONES,
Secretary.

GET BUSY

THERE'S no cause for gloominess because everybody seems to be grumbling about trade being bad. It is the special prerogative of the Britisher to grumble.

THIS IS A GOOD SIGN because it clearly indicates a striving after something better. Dull contentment is monotonous.

It is a national necessity that everybody should do their utmost to provide something BETTER THAN BEFORE.

ROBERT BAILEY & SON LTD. are eager to assist you and are always aiming at offering the best value procurable. Their latest production of

ABSORBENT COTTON WOOL

"ZORBO" BRAND

is unquestionably the finest yet produced.

It is on the P.A.T.A. List.
Four Smart Packings.
Sample and full particulars on application.

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Works: MARRIOTT ST., STOCKPORT.

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BUSSUM, HOLLAND.

GLYCERINE CHEM. PURE, S.G. 1·26

VANILLIN 100 % CHEM. PURE.

COUMARIN 100 % CHEM. PURE.

SAFROL, PURE.

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LAVENDER (French), SPIKE LAVENDER (French and Spanish)

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ESSENCES, SOLIDES and LIQUIDS from flowers. RESINOIDS and POMADES.

We have Stocks in London of the most important Essential Oils and Perfumery Products.

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Makers of SYNTHETIC PERFUMES

and some of the finest original odours extant, for Sachets, &c.

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HIGHEST QUALITY. ABSOLUTELY PURE. UNIFORM DELIVERIES.

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AROMATIC CHEMICALS
SYNTHETIC PERFUMES
FLOWER OILS –
ESSENTIAL OILS
ARTIF. MUSKS –

"RACO" FLOWER OILS
COMPOUNDS
CONCENTRATED ESSENCES
for Perfuming Toilet and Cosmetic Preparations.

To be used by every Chemist. Simplest and easiest!

The use of our essences of unequalled delicacy gives
QUALITY AND DISTINCTION TO YOUR PRODUCTS.

Please send for samples to prove our essences and to convince you of their great superiority.

Samples and expert advice for practical working will be furnished promptly on request.

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AMERICAN

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All Packages Inclusive.

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No. 45
10/- per doz.

P.A.T.A.
1/3 per box.

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No. 495.
7/- per doz.

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10½d. per box.

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Also manufacturers of the celebrated "ASHES OF ROSES," No. 2, 15/- per doz.; P.A.T.A. 1/9 per box.

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Unequalled for Making Perfumes Perfuming Toilet Preparations, Soaps, etc.

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CONCENTRATED ESSENCES, FLORAL OTTOS AND COMPOUNDS.

FOR the successful manufacture of Perfumes, Toilet Preparations, Soaps, etc., it is essential that all Essences should be of dependable quality and strength. Strength is vital. For this reason Preemo Essences are invaluable to the Perfumer or Soap Manufacturer, as they are highly concentrated and their strength never varies. They require no filtering or blending, and are supplied in all odours ready for immediate use, being soluble in Water, Spirit and Oil. The addition of Spirits only is required for making Perfumes.

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May we send you FREE SAMPLES?
These will be promptly forwarded on receipt of a note on your business heading.

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63 High Holborn, W.C. 1. Telephone: Chancery 8095.

Shipkoff's Pure Otto of Rose

Nature ordained that Otto of Rose should have certain chemical and physical contents. Fakers design rose oils having the same contents, but they are not *Otto of Rose.*

Shipkoff's Otto of Rose is Nature's Otto.

Before placing your contract be sure to get Shipkoff's sample and price, and try it. Original Sample Coppers in 1, 2 & 4-oz. sizes.

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MARSHALL'S GENUINE LYSOL

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We invite your especial attention to the announcement below, and at the same time extend a cordial vote of thanks to those who so kindly responded to our effort on behalf of the Benevolent Fund.

Yours truly, LYSOL, LIMITED.

WE have to announce that we have acquired the Lysol business, formerly carried on and owned by Schulke & Mayr, Hamburg, together with the Goodwill and all Trade Marks attaching thereto.—This purchase has been made by us in conjunction with the owners of the American rights in Lysol. The business has been purchased outright for cash and no reserved interest or royalty remains.

The attention of Pharmacists is specially directed to this announcement in order to avoid misunderstanding caused by mis-statement or misrepresentation of facts. Marshall's Lysol is made by us according to the formula always employed by Schulke & Mayr, and is therefore the Original and only Genuine preparation. All our packages will bear the Original Triangle Trade Mark at an early date, and will serve to distinguish our product from the many substitutes and imitations now being offered to the Pharmacist by all sorts of sellers. Reputable Pharmacists would be well advised to steer clear of such offers (although apparently tempting) and satisfy themselves and their customers by stocking and supplying only Marshall's Lysol.

Lysol REG. TRADE MARK

LYSOL, Ltd. Raynes Park, LONDON, S.W. 20

Makers of Lysol Soap—Ōsyl.

Lysol REG. TRADE MARK

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BATH SOAPS

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· Mammoth tablets · Exquisitely perfumed ·
"Chaminade" "June Roses" "Yesha"
"Mysterieuse" "Sérénade" "Triomphe"
& many other original odours.

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Toilet goods that bring repeats

CREME de MAINTENON

POUDRE de MAINTENON

A very elegant series, delightfully Perfumed and suitable for high-class trade.

Creme
In white opal pots, 7/6 and 12/6 per dozen.

Poudre
Small, 4/6 per dozen. Large, 10/6 per dozen.

LORIMER MARSHALL LTD.
12, TOWER HILL, LONDON, E.C.3.

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A big vigorous, impressive advertising campaign, covering the whole of the British Isles, is now being pursued. A vastly increased volume of business is inevitable. Generous profit to the trade has been arranged.

TATCHO
THE HAIR GROWER
Price 2/9
Wholesale : **26/-** PER DOZEN.

TATCHO-TONE
FOR GREY HAIR
Price 4/6
Wholesale : **42/-** PER DOZEN.

GEO. R. SIMS' HAIR RESTORER CO.
5 Great Queen St., Kingsway, LONDON, W.C.2.

RUVOIRE ET CIE
MANCHESTER & ANTIBES.

High-class Concentrated Perfumes made with some of the finest flower oils from the South of France, in high-class rod-stoppered hexagon bottles with gold seals.

ODOURS—
PARMA VIOLET. SWEET PEA.
WHITE ROSE. WHITE LILAC.
WALLFLOWER. LILY OF THE VALLEY.
FREE FROM SPIRIT.

Above combination mounted on artistic card, displaying One Dozen Bottles.

A very attractive and good Selling Line.

APPLY— A. M. EVANS,
154 CHURCH LANE, HARPURHEY
MANCHESTER.

Where Quality Reigns Supreme

OUR WEEKLY MESSAGE.

Dependable goods pay everybody best in the long run.

***

We never press for big opening orders, being content for the quality of our lines to bring us bigger "repeat" business.

***

Nearly every account on our books is a growing one. Nearly every customer is a thoroughly satisfied one.

***

Will you give us a chance of serving you well by applying for all our tariffs?

REMARKABLE SUCCESS OF

SIMMS TRADE MARK SET IN RUBBER

GUARANTEED SHAVING BRUSHES

Admired and bought in big quantities by nine chemists out of ten who have inspected them.

EACH IN BOX—GOOD SHOW MATERIAL—RANGE OF OVER 100, to Retail from 2/3 to 63/-. WRITE FOR A SMALL TRIAL RANGE at RETAIL PRICES YOU USUALLY SELL AT.

POUDRE DE LUZY

A line that will please your customers and pay you well.

10½d. ∴ 1/9 ∴ 3/6 Retail

IN DISPLAY BOXES.

Discount 33⅓%. Bonus terms on application.

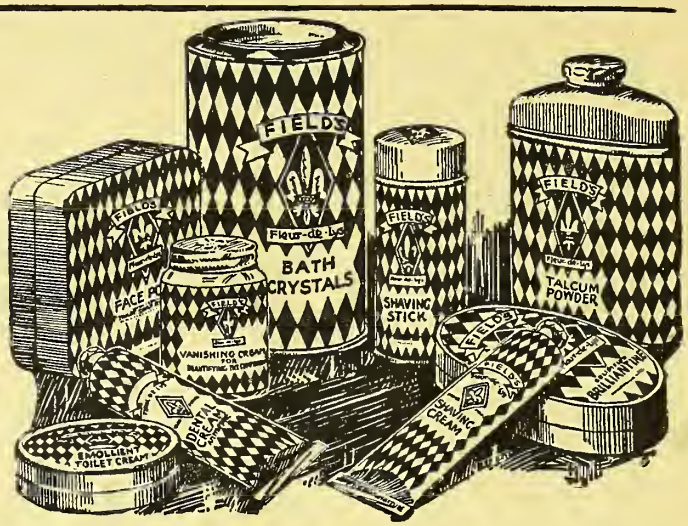
SALES DAILY INCREASING.

W·H·CALNAN & Co LTD.
30-32 LUDGATE HILL, LONDON.E.C.4.

IN their presentation to the public, Field's Fleur-de-Lys Toilet Preparations strike an entirely new note. They are daintily packed in containers covered with a very arresting yet dignified design of old gold and black diamonds, that cannot fail to attract the attention of your customers, and convey a very pleasing impression.

These lines are all a lucrative source of profit to you, and their quality, and the very attractive manner of their presentation to the public, assure that the advantageous terms offered you are regular and continual.

Their quality is backed by our high reputation—nearly 300 years old.



FLEUR-DE-LYS
Toilet Preparations REGD.

J. C. & J. Field, Ltd., Upper Marsh, Lambeth, S.E. 1.

Estd. in 1642, in the reign of Charles I.

THE ORIGINAL

—

USUAL WHOLESALERS, OR

SECKER, ROBB & CO.

Cromwell House,
SURREY STREET, W.C. 2.

Telegrams: "Tinophiz, London."
Telephone: Central 2420.

The Gnat Nuisance Solved.

"SUMMAREEN"

Vanishing Cream. Face Powder.
Dusting Powder. Brilliantine.
Lotion.

Retail 2/6 each article. Wholesale 20/- per doz.

Perfectly harmless and refreshingly perfumed, the "Summareen" preparations can be safely recommended to provide *complete immunity against all insect bites.*

Full particulars from the Manufacturers—

Carmichael Soap & Perfumery Co. Ltd.,
Macfarlane Road, Shepherd's Bush, London, W.12.

PUSHFUL CHEMISTS

Who are desirous of making a

PROFIT of 48 PER CENT.

on a quick-selling proprietary article are invited to write to—

The SPA TOILET CO.
(*Branch of the County Chemical Co.*) LEAMINGTON SPA

FOR FULL PARTICULARS.

We select one Chemist for one town or district of large town. *Write us TO-DAY.*

DEARBORN

LIMITED

37 Gray's Inn Road, LONDON, W.C.

Toilet Specialities.

	Price per doz. to Retailer.	Selling Price P.A.T.A.
PILENTA SOAP - A complexion soap.	10/-	1/-
PROLACTUM - For the lips.	10/-	1/-
PARSIDIUM JELLY - For wrinkles.	10/-	1/-
ALLACITE of ORANGE BLOSSOM - A dressing cream.	22/6	2/6
BORANIUM - A hair tonic.	22/6	2/6
SILMERINE - Hair curling fluid.	22/6	2/6
CLEMINITE - For a face lotion.	22/6	2/6
COLLIANDUM - For a face tint.	22/6	2/6
PERGOL - A deodorant.	22/6	2/6
STALLAX - For a shampoo.	22/6	2/6
JETTALINE - For clearing the skin.	31/6	3/6
PHEMINOL - A depilatory.	36/-	4/-
TEKKO PASTE - Camphor cream.	22/6	2/6
MENNALINE - For the eyelashes.	36/-	4/-
MERCOLIZED WAX - A face cream.	31/6	3/6
STYMOL - For oily complexions and blackheads.	36/-	4/-
BARSYDE - Dandruff eradicator.	22/6	2/6
TAMMALITE - For grey or faded hair.	22/6	2/6
LIQUID PERGOL - To check excessive perspiration locally.	31/6	3/6
BICROLIUM - For whitening the hands.	22/6	2/6
COCONOIDS - For figure development.	31/6	3/6
HARAPOSA - Nut oil shampoo.	22/6	2/6

STOCKED BY ALL WHOLESALE HOUSES

COLONIAL DEPOTS AND AGENCIES:

AUSTRALIA:
ALL WHOLESALERS, and
DEARBORN, Ltd., Grace House, Clarence Street, Sydney.

SOUTH AFRICA:
LENNON, Ltd.
SIVE BROS. & KARNOVSKY, Ltd. (Johannesburg).

INDIA:
KEMP & CO., Ltd. (Bombay).
THE INTERNATIONAL TRADING CO., Princess Street (Bombay).
R. MACLURE (Madras).
SMITH, STANISTREET & CO. (Calcutta).
MEHTA BROS. (Calcutta).
JAMNADAS BROS. (Bombay).

NEW ZEALAND:
SHARLAND & CO., Ltd. (Auckland & Wellington).

SOUTH AMERICA:
DEARBORN, Ltd., Calla Salta 264, Buenos Aires.

The Original Solid Eau de Cologne.
The World's Great Perfume and Refresher in Solid Form.

MERIT SELLS THESE

FROZOCLONE

The Original Solid Eau de Cologne.

Retails (P.A.T.A.) 3/6, giving at least 10d. profit on each sale.
32/- per doz.

For Export Quantities of not less than 4 gross a further substantial allowance will be made.

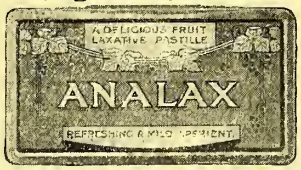
Also

SOLID ENGLISH LAVENDER

Same Style and Prices.

ANALAX

(Reg. Pat. No. 310716)



The Ideal Fruity Laxative in Pastille Form.
DELICIOUS. RELIABLE. EFFECTIVE.
Retail (P.A.T.A.) Minimum **2/3**
21/- per doz., stamped.

NAIL POLISH

with new and distinctive features.
Antiseptic, softens the cuticle, lasting and brilliant polish.

Retails (P.A.T.A.) **1/9**
15/- per doz.

R. Demuth's Laboratories,

68 Salusbury Road, and Montrose Avenue,
LONDON, N.W. 6.

The

HENNA CULT

of Hair Beauty, based on the famous

EVAN - WILLIAMS

ORIGINAL

HENNA SHAMPOO

daily extends its boundaries, and is now a subject for popular journalism.

It pays to sell this famous line.

You will find full details of terms and prices in the current issue of "THE SHAMPOO SALESMAN," a copy of which is gladly sent on request.

Be sure to order

THE EVAN WILLIAMS ORIGINAL Henna Shampoo

Wholesale only:
THE EVAN-WILLIAMS CO., LTD.
18 Ogle Street - LONDON, W. 1.

"CUTEX"

Manicure Preparations

No.			P.A.T.A.
1.	"Cutex" the Ideal Cuticle Remover, Small	18/-	2/-
2.	,, ,, ,, Large	36/-	4/-
4.	,, Nail White ...	18/-	2/-
5.	,, ,, Polish Cake, White	18/-	2/-
6.	,, ,, ,, Pink	18/-	2/-
7.	,, ,, Trial Size	5/6	7½d.
22.	,, Nail Polish Stick, in metal tube	13/6	1/6
8.	,, ,, Powder	13/6	1/6
9.	,, Polishing Paste, Pink	18/-	2/-
10.	,, ,, ,, Plain	18/-	2/-
11.	,, Liquid Nail Enamel	22/6	2/6
13.	,, Cuticle Comfort ...	18/-	2/-
14.	,, Nail Bleach Powder	18/-	2/-
15.	,, ,, Rouge ...	18/-	2/-
16.	,, Compact Manicure Set	27/-	3/-
17.	,, Travelling ,, ,,	84/-	9/6
18.	,, Boudoir ,, ,,	168/-	19/-
31.	,, Cold Cream ...	18/-	2/-

Henry C. Quelch & Co.
4 & 5 Ludgate Sq., London, E.C.4

SOLE AGENTS FOR THE
Northam Warren Corporation, Ltd.
Montreal and New York.

IRISH AGENT:
K. O'Sullivan, 31 Wicklow Street, Dublin,
where a large range of samples may be seen.

SALES PROMOTION

and Discriminate Buying

are closely associated—therefore increase your sales by carefully selecting

SELLING LINES

FOR THE TOILET—

RIVERA VICTORY BOUQUET TOILET SOAP

FOR SMOOTH SHAVING—

SOLACE SOLIDIFIED CREAM SHAVING STICK

FOR THE TEETH (Artificial Denture)—

SOAP "BISCUIT"

SOMETHING QUITE ORIGINAL.

CHEMIST'S OWN BRAND SOAPS.

DISINFECTANT FLUIDS & POWDERS

SEND FOR FULL LISTS TO

EDWARD COOK & CO., LTD., BOW, LONDON, E. 3

Telegraphic Address: "CRESSWELL, WESTCENT, LONDON." **WORLD'S HEADQUARTERS FOR** Telephone: No. 1432 HOLBORN.

SPONGES

INTERNATIONAL SPONGE IMPORTERS, LIMITED.

CRESSWELL BROTHERS

Sponge Importers, Exporters and Merchants, and Chamois Leather Dressers,

18 & 19 RED LION SQUARE, New Warehouses and Steam Bleacheries, 45½ EAGLE STREET, **LONDON, W.C.** [BRANCH,

BEST HOUSE FOR SPONGES

Buyers are invited to call to Inspect our Magnificent Stocks and make their own Selections. Lowest Market Prices. Absolutely Best Values. The following abridged List will serve as a guide to Buyers when writing.

UNBLEACHED MEDITERRANEAN SPONGES in Original Cases.

HONEYCOMB.

Extra Choice.
The Pick of all the Fisheries.
FINEST TEXTURE and SHAPE.

Pieces in Case.		Average Price per Piece.
300	Toilet at	9d.
250	,, ,,	1/-
200	,, ,,	1/6
160	,, ,,	2/-
140	,, ,,	2/6
120	,, ,,	3/-
100	,, ,,	3/6
90	Medium Bath	4/6
80	,, ,,	5/6
72	,, ,,	6/6
60	,, ,,	7/6
45	Large Bath,,	8/6
30	,, ,,	10/6

HONEYCOMB.

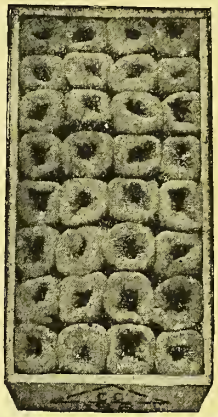
Toilet & Bath
Good 2nd Quality.

Pieces in Case.		Av'ge Price per Piece.
270	at	6d.
180	,,	9d.
170	,,	1/-
160	,,	1/6
140	,,	2/-
120	,,	2/6
110	,,	3/-
90	,,	3/6
80	,,	4/-
75	,,	4/6
70	,,	5/-
65	,,	5/6
60	,,	6/6

FINE TURKEY SOLIDS.

SELECTED SHAPES.
1st Quality,

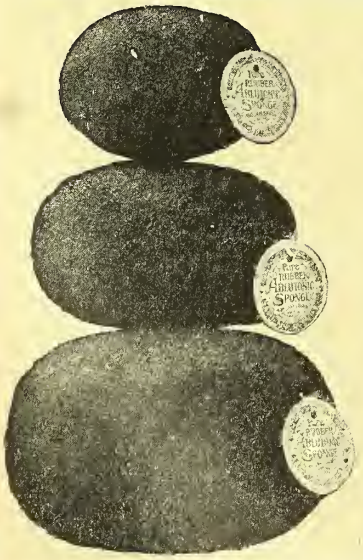
Pieces in Case.		Average Price per Piece.
Nursery 200	at	1/-
Toilet 150	,,	1/6
,, 100	,,	1/9
,, 100	,,	2/-
,, 80	,,	2/6
Bath 50	,,	3/-
,, 36	,,	4/-
,, 24	,,	5/-



IMPORTANT NOTICE. THE CONTENTS OF THE ABOVE CASES WILL BE PRESS-PACKED AND SENT POST FREE TO COLONIAL AND FOREIGN BUYERS WITHIN THE RADIUS OF PARCELS POST.

LOOSE GOODS DEPARTMENT. **Sponges in Small Packages.** Fine Turkey. Fine Egyptian and Honeycomb. In 1st, 2nd & 3rd Qualities. Bleached or Unbleached (state which in ordering). On Strings of 1 dozen pieces, or loose in Bags. At per dozen: 2s., 3s., 4s., 6s., 9s., 12s., 15s., 18s., 24s., 30s., 36s., 42s., 48s., 54s., 60s., 66s., 72s. Bleached Cuban. At per String or Dozen. Wool, Grass, Yellow and Fine. 1s., 2s., 3s., 4s., 6s., 9s., 12s., 15s., 18s., 24s.

NEW VELVET HONEYCOMB. Soft, durable, and large for money. *Suitable for Toilet and Bath purposes.*
PRICES—Cut Shapes ... ... 3s., 4s. 6s., 9s., 12s., 15s., 18s., 21s., 24s. per dozen.
,, Natural Shapes 4s., 6s., 9s., 12s., 15s., 18s., 21s., 24s., 30s., 33s., 36s. ,,
Strongly recommended where an inexpensive Toilet & Bath Sponge is required.



The Best and most Saleable Rubber Sponge on the Market.

ABLUTONIC RUBBER SPONGE

The nearest approach to the true Fine Turkey Sponge yet produced.

A VERITABLE TRIUMPH OF BRITISH MANUFACTURE.

Very Soft, Durable and Absorbent.

Supplied in OVAL and ROUND SHAPES.

	Nos. 01	1	2	3	4	5	6
Prices:—OVAL SHAPES	8/-	10/6	15/-	22/-	30/-	39/-	50/- doz.

	Nos. 1 R	2 R	3 R	4 R	5 R	6 R
,, ROUND SHAPES	13/6	18/6	27/-	39/-	50/-	60/- doz.

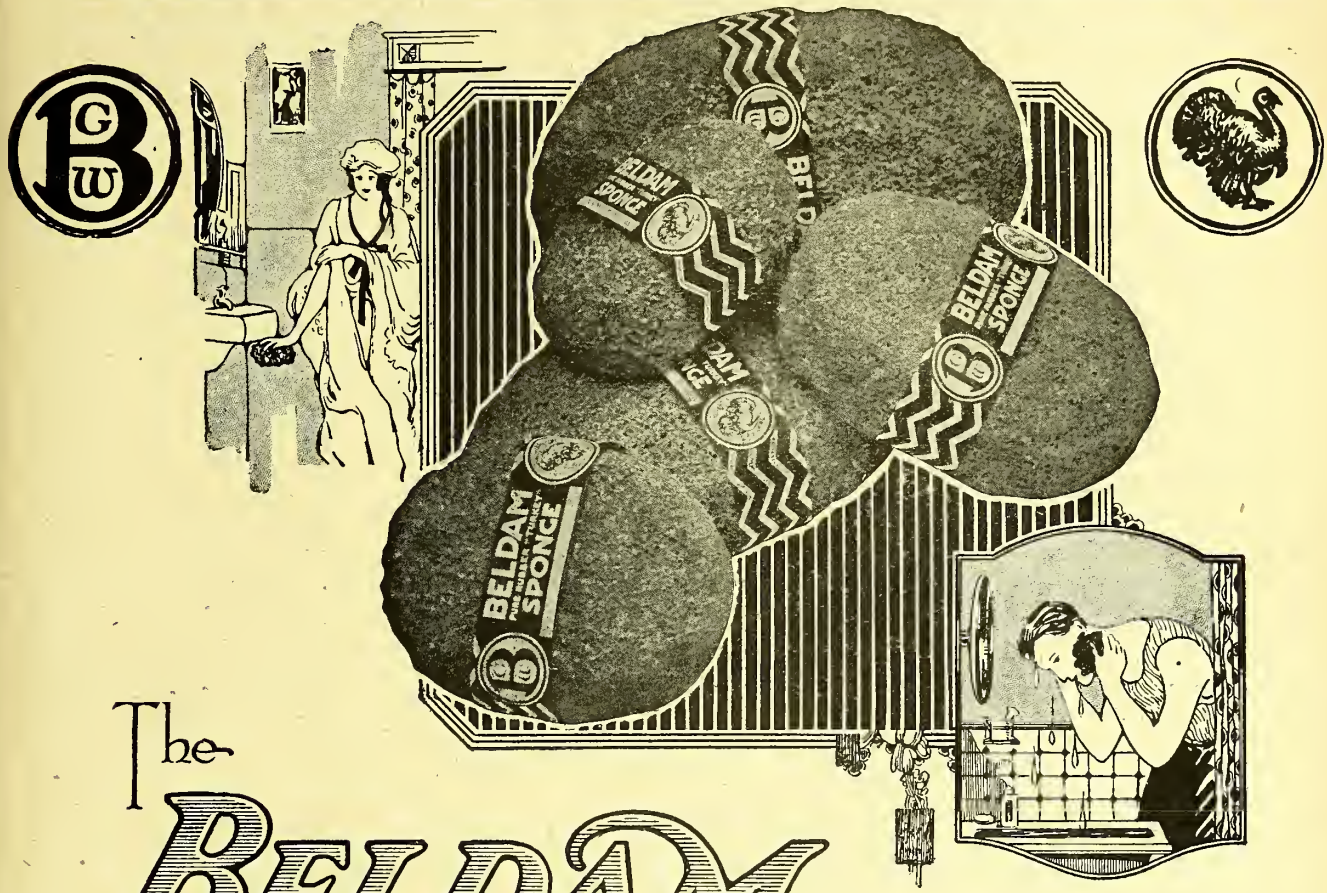
Send for Samples.

LOOFAHS (Vegetable Sponge). In original compressed bales, as imported from Japan.

Size 8" by 10" about 5,000 pieces in Bale		Size 14" by 16" about 2,500 pieces in Bale	
,, 10" ,, 12" ,,	4,500 ,, ,,	,, 16" ,, 18" ,,	1,800 ,, ,, ,,
,, 12" ,, 14" ,,	3,500 ,, ,, ,,	18" and upwards	1,200 ,, ,, ,,

We will send lowest prices on application.

Prices for Loofahs swollen out & ready for sale, at per gross **30/- 36/- 42/- 48/- 60/- 72/-**



The BELDAM SPONGE

MADE by a British firm by a patent process from pure rubber, these sponges have won their way into favour by their durability, long life and soft texture.

Purchasers of Beldam Sponges are always impressed by their wearing qualities, and the unanimous opinion is that Beldam Sponges last very much longer than other makes.

To the manufacturers this is not so remarkable as they are specially made to do so by an improved process which is the sole property of the Beldam Company.

The ordinary sponge is supplied in five sizes and sold at popular prices. A patent rough-smooth sponge, rough on one side and smooth on the other, is also supplied in three sizes retailed at protected prices.

Can we send you a Price List?

Made by the

BELDAM TYRE CO. (1920), Ltd.
Brentford, Middlesex.

Sole Selling Agents:

W·B CARTWRIGHT LTD.

Morland Pharmacy Service

RAWDON NEAR LEEDS

B B

DANGEROUS DRUGS ACT, 1920.

HAVE YOU READ THE ACT? Perhaps not. You have been waiting for some short cut without the Drudgery.

WILKINSON'S

Opium and Morphine Registers

Bring you right up to date. They are the handiest Books of Reference published. The preface gives in a clear, readable, yet concise form, all that matters. There is also a List of Examples of Drugs, their Salts and Preparations that come within the Regulations, together with the Percentages of such Drugs, &c., and numerous pages with spacious columns for recording Purchases and Sales.

PRICE { Opium Register - - 3/- each.
Morphine Register, 4/- each.

Order now from . . JAMES F. WILKINSON, Pharmacists' Printer
(Exors.: G. F. BERRY & J. G. DRIVER.)
Bury Street, PENDLETON, Manchester.

London College of Pharmacy.

Principals { HENRY WOOTTON, B.Sc.(Lond.)
CHAS. W. GOSLING, Ph.C.

MINOR COURSES—
AUG. 9—7 WEEKS' REVISION.
OCT. 4—3 MONTHS' COURSE.
" —6 " "
" 5—9 " "

MAJOR COURSE—
OCT. 5—6 MONTHS' COURSE.

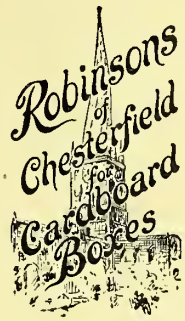
Apply, The Secretary, 361 Clapham Road, S.W.9.

WESTMINSTER
COLLEGE OF PHARMACY.
G. S. V. WILLS, Ph.C., & P. H. WOODNOTH, Ph.C.
(Principals).

REVISION COURSE, AUG. 16, Fee £6 6 0
6 MONTHS' COURSE commences OCT. 10.
9 MONTHS' COURSE commences OCT. 11.

For Details of Arrangements, apply to the Principals,
190 CLAPHAM ROAD, S.W. 9.

MANY SUCCESSES IN THE RECENT EXAMINATIONS!
Your Opportunity to
QUALIFY IN OPTICS
Expert Tuition by Correspondence for the SIGHT-TESTING DIPLOMAS of the Worshipful Company of Spectacle Makers (F.S.M.C.) *or the British Optical Association* (D.B.O.A.)
WRITE FOR FULL PARTICULARS.
C. A. SCURR, M.P.S., F.S.M.C., F.I.O., etc., 64 High Street, BARNET.



FOLDING BOXES INCREASE YOUR SALES

FOLDING BOXES LEND THEMSELVES ADMIRABLY TO ARTISTIC TREATMENT. EVEN THE CHEAPEST IN AN EXPERT'S HANDS CAN BE MADE TO GIVE THAT AIR OF QUALITY WHICH IS NEEDED TO CHANGE "A GOOD IMPRESSION INTO A SALE."

GOODS WELL PACKED ARE LIKE SEEDS SOWN ON GOOD GROUND, THEY BRING LARGE RETURNS.

MAY WE HAVE THE OPPORTUNITY OF SENDING YOU SAMPLES AND PRICES.

ROBINSON & SONS, Ltd.

MANUFACTURERS OF ROUND, OVAL, SQUARE AND FOLDING CARDBOARD BOXES.

CHESTERFIELD & LONDON.

72

"Corruganza" SEAMLESS OINTMENT BOXES

Have replaced the old "Willow" boxes—Greaseproof—the bottoms cannot fall out.

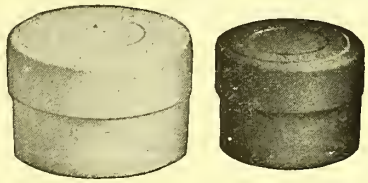
GERMAN "WILLOW" BOXES are again being offered at lower prices, but these boxes will not hold Powders, nor, in warm weather, Ointments.

THEY ARE DEAR AT ANY PRICE.

Stick to the ONE-PIECE principle

* * * * *

"Corruganza" SEAMLESS PILL BOXES.



THE phenomenal success of the "Corruganza" Seamless Ointment Boxes has induced us to offer a series of Pill Boxes made on the same **One-Piece** principle. Stocked in usual sizes.
They cost a little more than the Ring and Disc style, but THEY HOLD THE GOODS, and do not fall to pieces in handling or in the pocket.

Wholesale or Export only from

HUGH STEVENSON & SONS,

LIMITED,

Summerstown Works, London, S.W. 17

And at Manchester, Birmingham, Leith, Perth & Glasgow.

Kindly mention this Journal when replying to the advertisement.

AMATEURS' "SNAPSHOTS" DEVELOPED AND PRINTED.

At this busy holiday season you may have more developing and printing on hand than you can do justice to. You can send your films to us with absolute confidence. We guarantee best results in shortest time and allow you a substantial margin of profit. Write to-day for price list.

FORBEST LIMITED. Quality and Speed

171b Brook Street, Broughty Ferry, Dundee.

POSTCARD ENLARGEMENTS

1 dozen from the same negative

B. & W. per dozen **2/-** Sepia per dozen **3/-**

LET US DO YOUR

DEVELOPING & PRINTING

BEST WORK & QUICK SERVICE.

SHAWYER, SWINDON, WILTS.

DEVELOPING

AND PRINTING ROLL FILMS.

Join the live wire service, All work returned same day.

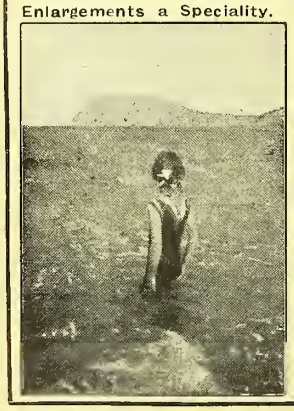
PRICE RIGHT—QUALITY UNEQUALLED.

Write for List "J" to-day.

WALLACE HEATON LTD.

CHANGE ALLEY, SHEFFIELD.

Enlargements a Speciality.



33⅓% CLEAR PROFIT on holiday snaps

If you forward your Films to

FOX

Full particulars of our 24-hour Developing and Printing Service from

FOX FOTO SERVICE
8 Castle St., SHEFFIELD
(The Trade Photographers).

ZEAL'S REGISTERED

Clinical Thermometer

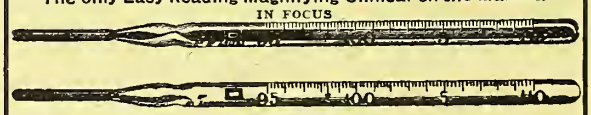
The REPELLO requires no shaking down

A 30-second pushed back in an instant.

NEW IMPROVED LENS FINDER

The only Easy Reading Magnifying Clinical on the Market.

IN FOCUS



OUT OF FOCUS

The square mark engraved on lens front locates the Mercury column immediately.

SPECIAL AWARD AND GOLD MEDAL, NEW ZEALAND, 1907.
SILVER MEDAL, INDIA, 1909. SILVER MEDAL, LONDON, 1913.

All Clinical Thermometers are N.P.L. Tested.

G. H. Zeal, 82 Turnmill St., London, E.C. 1

Wholesale Manufacturer of Clinical Thermometers.
Contractor to H.M. Government.

Established 1888. Tel. No.: Central 12438.

DEVELOPING and PRINTING

Speed and Satisfaction Guaranteed

Send your order to us and have your work done properly and quickly.

POSTCARD PRINTING AND ENLARGING

Price List on application together with trade card to—

"WHITES" (J. & P. White & Co.) Dept. A.
118 GREAT DUCIE STREET, MANCHESTER.
Phone—4827 Central. Tel. Address—"Studio."

SAME DAY SERVICE

FILMS DEVELOPED & PRINTED

POST CARD PRINTING - ENLARGING
COLOURED WORK.

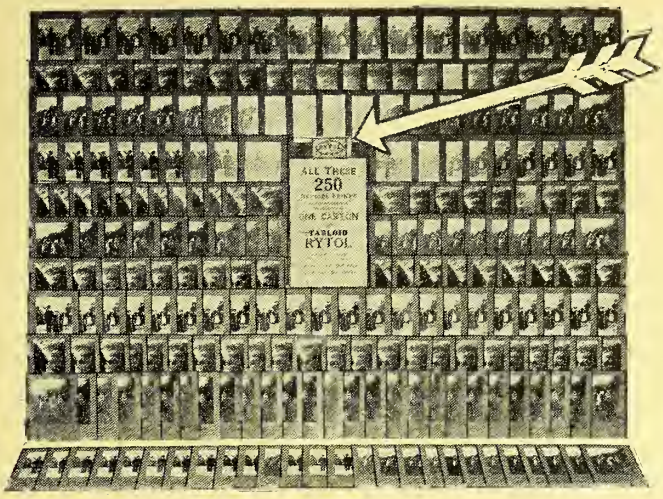
SPEEDIEST SERVICE. FIRST-CLASS WORK

Lowest Trade Terms on Application

THE PROGRESS ART STUDIOS

45-47 CHEETHAM HILL ROAD, MANCHESTER

Telegrams: "Announce." *Phone: Central 1579*



Tell your photographic customers that with one carton of 'Rytol' at 2/- they can develop 250 Bromide Prints. This means ten prints for less than ONE PENNY

TRADE MARK **'TABLOID'** BRAND

TRADE **'RYTOL'** MARK

UNIVERSAL DEVELOPER

Develops to perfection all plates, films, bromide and gaslight papers and lantern slides.

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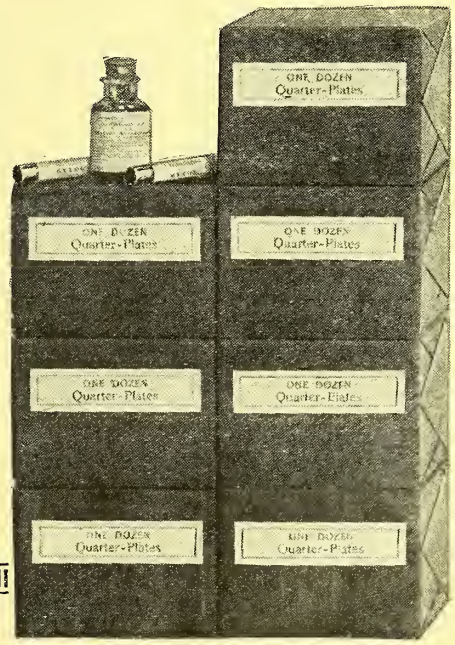

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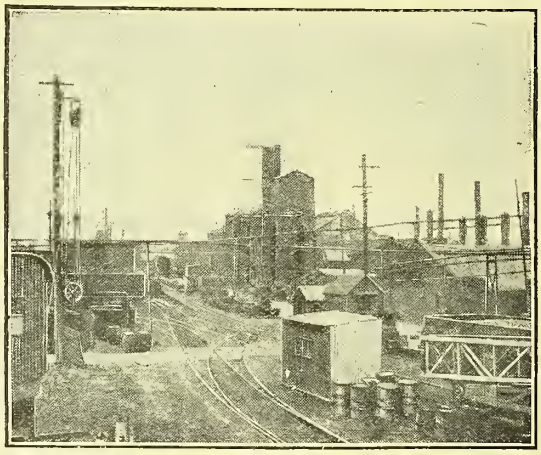

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THE CHEMIST AND DRUGGIST

A WEEKLY JOURNAL OF PHARMACY AND OF THE CHEMICAL AND DRUG TRADES.

THE CHEMIST AND DRUGGIST is in circulation and reputation the leading journal addressing the Chemical and Drug trades in the British Empire and other countries in the Old and New Worlds. It is the official organ of the Pharmaceutical Society of Ireland, the Chemists' and Druggists' Society of Ireland, and of other Chemists' Societies in the Overseas Dominions.

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Il prezzo dell'abbonamento annuo è di 20 sc. franco, e s'intende per un numero settimanale del periodico, ed un esemplare del diario annuale.

Précio de suscrición 20 chilines anuales. Se publica los Sábados. Número suelto 1 chilin. Tambien se remite a los suscritores una vez por año el "Almanaque de Referencia."

TERMS FOR ADVERTISING may be obtained on application to the Publisher.

Head Office: 42 CANNON STREET, LONDON, E.C. 4

Telegrams: "Chemicus, Cannon, London." Telephone: Central 3617 (3 lines).

Branch Offices: 49 County Buildings, Old Millgate, Manchester. (Telephone: City 52)
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A NOS LECTEURS BELGES

Le commerce en général entre la Belgique et la Grande-Bretagne est en augmentation constante et, quoique cette année on ne parviendra pas à atteindre les chiffres normaux, il y a cependant des indices de progrès rapides dans cette direction. En 1920 la Belgique acheta à la Grande-Bretagne environ 675,000 tonnes de produits chimiques et drogueries, couleurs d'aniline, etc., tandis que la Grande-Bretagne acheta en Belgique, en marchandises semblables, environ 45,000 tonnes. En temps ordinaire la Belgique fournissait au Royaume-Uni différentes drogues très importantes, telles que fleurs de camomille, aconit, valériane, bardane, hellébore et racines de chicorée. Diverses marques belges d'huile de ricin y jouissaient d'une forte demande de même que les articles de verrerie pour chimie, pharmacie et chirurgie. Tous ces produits s'importent encore toujours en certaines quantités. La verrerie importée pendant l'année 1920, atteignit le chiffre de 256,189 tonnes; c'est presque le chiffre d'importation d'avant-guerre. Il y a cependant encore toujours place pour extension d'affaires en différentes directions. Toutes les ressources dont le journal The Chemist and Druggist dispose, y compris son département d'informations commerciales, sont toujours à la disposition de nos confrères belges.

AAN ONZE BELGISCHE LEZERS

Over het algemeen beschouwd is de handel tusschen Belgie en Groot-Britannie in voortdurenden aangroei en alhoewel het normale peil dit jaar nog niet zal bereikt worden, zijn er evenwel teekenen van snellen vooruitgang in deze richting. Gedurende 1920 kocht Belgie aan scheikundige produkten en drogerijen teerkleurstoffen enz., van Groot-Britannie, tot een beloop van 675,000 ton, terwijl Groot-Britannie soortgelijke koopwaren van Belgie betrok, ten beloope van ongeveer 45,000 ton. In gewonen tijd voorzag Belgie het Vereenigd - Koninkrijk van verschillende belangrijke drogerijen, als roomsche kamillen, aconitum, valeriana, kliswortel (bardane), nieswortel (helleborus) en suikerij wortel. Verschillende belgische merken van wonderolie (ricinolie) hadden er ook eenen grooten afzet, evenals glaswerk voor scheikundige, pharmaceutische en chirurgische doeleinden. Alle deze artikels worden nog altijd ingevoerd in zekere hoeveelheid in dit land. De invoer van glaswerk tijdens 1920 beliep tot 256,189 ton; voor dit artikel werd bijna het invoerpeil van voor den oorlog bereikt. Er is evenwel nog altijd plaats voor uitbreiding van zaken in verschillende richtingen. Al de middelen waarover The Chemist and Druggist beschikt, erin begrepen zijn handelsinlichtingen—departement, zijn altijd ter beschikking onzer belgische collegas.

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English and Welsh News

The Editor would be obliged if subscribers would send him marked copies of newspapers containing items of interest for insertion in this or other news sections of the "C. & D."

Contracts

The following tenders have been accepted by the bodies named:

Barnstaple Guardians.—Mr. E. W. Proudman, chemist and druggist, quinine.

Birkenhead Guardians.—Evans Sons Lescher & Webb, Ltd., Liverpool, drugs.

Dover Town Council.—Mr. J. Weir, chemist and druggist, sundries.

Isle of Wight Guardians.—Robert Bailey & Son, Ltd., A. Millidge & Son, B. Pratt & Co., The "Sanitas" Co., Ltd., Timothy White Co., Ltd., drugs and dressings.

Romsey Guardians.—Mr. F. Oram, Ph.C., drugs, etc.

West Bromwich Guardians.—Southall Bros. & Barclay, Ltd., drugs, etc.

Great Yarmouth Guardians.—Boots, Ltd., drugs.

Poisonings

The following cases of fatal poisoning have been recorded since our last report:

At Stockport, recently, a woman committed suicide by drinking carbolic acid.

A verdict of suicide was returned, on June 30, in the case of Henry Joseph Wise, Popham Road, London, N., who died from the effects of drinking lysol.

At Northampton Workhouse, on July 4, Lois Cox, who had been detained in the hospital while suffering from epilepsy, committed suicide by drinking lysol.

At an inquest held at Witton Bridge the death of James E. Giles, a local auctioneer, was attributed to suicide by swallowing carbolic acid while of unsound mind.

At St. Pancras, on July 5, an open verdict was recorded in the case of Cecil Hardy, a sergeant-major in the R.A.M.C., whose dead body was found in the King's Cross Hotel. Dr. B. H. Spilsbury stated that there were five punctured wounds on each thigh made by the needle of a hypodermic syringe. There was nothing to account for death. Mr. John Webster, senior Home Office analyst, stated that he found about one-fifth of a grain of morphine in the internal organs. Dr. Spilsbury, recalled, said, "After the evidence of the analyst I have come to the conclusion that death was due to coma from poisoning by morphine."

Birmingham

Mr. F. C. Clayton, Ph.C., has resigned the Pro-vice-chancellorship of Birmingham University.

Mr. H. W. Bland, son of Mr. J. W. Bland, chemist and druggist, Moseley Road, has passed the third examination for the degrees M.B. and Ch.B.

Miss I. G. Whittock, daughter of Mr. W. H. Whittock, director of Boots (Western), Ltd., has been awarded the diploma (with distinction) of the Birmingham University for social study.

C C

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Jersey

Mr. Stanley Victor Kent, having produced the necessary certificates, has been granted permission to practise pharmacy in the island of Jersey.

Registration has been granted by the Royal Court of Jersey of trade-marks to Nathan Pendlebury Frith Sandiford and Hubert Cecil Sandiford, mineral-water manufacturers, Altrincham and Hale, Cheshire.

The States of Jersey recently discussed an offer of 2,800*l.* from Sir Jesse Boot, in connection with the local housing scheme. It was stated that Sir Jesse was considering the expenditure of 50,000*l.* on housing in the island. There were no stipulations in connection with the gift, which was eventually declined, it being considered that the Assembly could not accept money from a private person for a scheme for which it was itself responsible.

Liverpool

A partial holiday was given by all employers in honour of the Prince of Wales's visit.

The University of Liverpool celebrated "degree day" at St. George's Hall on July 2, the Chancellor (the Earl of Derby) presiding.

The plans for the rebuilding of the Hanover Street premises of Ayrton, Saunders & Co., Ltd., have received the sanction of the various public bodies concerned and reconstruction work is now in progress.

A fine of 25*l.*, and 10*l.* 10*s.* costs, was recently imposed on Heikichi Fugiwara, who keeps a Japanese boarding-house at Great George Square, for being in unauthorised possession of cocaine. A charge of being in possession of opium was dismissed.

Soaps, salines, and sulphur (in various forms and combinations) are among the leading lines in pharmacy windows at present. The pedestrian exercise induced by curtailment of transport facilities has brought corn solvents and razors to the fore. Record sunshine has given impetus to sales of photographic requisites.

Mr. A. B. Sparrow, chemist and druggist, Southsea, has sent to Liverpool friends prints of his snapshots of charabanc parties and individuals *en route* from Scarborough to Whitby. One trio group comprises Mr. W. A. Bell (Southsea), with Mr. John A. Robinson and Mr. Harold Wyatt, J.P., Ph.C., on his right and left.

With the partial restoration of the train service and the brighter outlook industrially has come a great increase in the holiday traffic through Liverpool. The pharmacies which display holiday needs are benefiting. A Scotland-bound train left Liverpool on Monday with over 100 passengers standing in the corridors. *Per contra*, a corresponding train during the war counted but three passengers.

Liverpool School of Pharmacy.—Over 100 students of the Liverpool School of Pharmacy visited the laboratories of Evans Sons Lescher & Webb, Ltd., on June 28. They were divided into parties and conducted through, under the direction of Messrs. Turner, Cameron, Boulton, Shaw, and Nicholson. Special interest was attached to the change from coal to oil fuel. The students were shown the various pharmaceutical operations, such as maceration, percolation, the making of ointments and granular preparations, etc., on the large scale. The Bramah press, registering a pressure of from 1½ to 2 tons per square inch, was shown in operation; the minute quantity of alcohol still remaining in the marc is recovered in special stills. A batch of pills was observed through the various stages, until a beautifully finished article was evolved. Appropriately, the visit terminated with a drink in the huge bottling department of Montserrat lime-juice and cordial. A substantial tea was afterwards provided by the company.

Manchester

The majority of chemists are making the most of the boom in the photographic trade, created, no doubt, by the prevailing weather.

The pageant procession organised by the Lord Mayor of Manchester, on July 2, was a great success. Among the many attractive exhibits one of the most striking was that of Veno Drug Co., Ltd.

"Degree day," July 2, at Manchester University was a red-letter day for students of pharmacy. Among those

Photo.] [*Cleworth.*

Group of B.Sc. Students, taken on "Degree Day," July 2, at Manchester University.

Left to right (seated), Mr. E. C. Davies, Miss J. Duncan, Professor R. B. Wild, M.D., M.Sc., Mr. Jas. Grier, M.Sc., Miss Ivy Roberts, Mr. K. Samaan, Ph.D., M.Sc.; (second row) Miss M. Pilkington, Miss A. Scholefield, Miss G. Hindes, Miss M. Ralphs, Miss H. Crosfield; (third row) Mr. A. Burgess, Mr. G. G. Hammond, Mr. D. Hampson.

who have recently taken the B.Sc. degree are Mr. A. Burgess, son of Mr. A. H. Burgess, chemist and druggist, Altrincham, Mr. D. Hampson, son of Mr. W. Hampson, Ph.C., Leigh, and Mr. Allan R. Parkinson, son of Mr. T. G. Parkinson, chemist and druggist, Burnley. Miss Marjorie A. Thexton, eldest daughter of Mr. G. W. Thexton, chemist and druggist, Kirkby Lonsdale, has also obtained the B.A. degree at the University.

Scarborough

Mr. John Whitfield, Ph.C., who was in ill-health at the time of the Conference, is much better.

Mr. E. Waring, who was operated upon for gallstones during his visit to the Conference, is now making a good recovery.

Mr. Feaver Clarke, Mr. F. Pilkington Sargeant, Mr. and Mrs. Roberts, Mrs. Saville Peck, and Mrs. W. R. Eyre, who were all much shaken in the charabanc accident on the road to Bridlington on June 17, have recovered from the shock they received on that occasion.

On June 30 Mr. and Mrs. George Whitfield gave a dinner at the Queen's Hotel to the Local Conference Committee, and included the staffs from both of their establishments, the guests numbering fifty-five. Mr. and Mrs. F. G. Hines (York) and Mr. and Mrs. W. Ruff (Whitby) were amongst those present. Mr. George Whitfield, in a short speech, welcomed the members, and referred to the dinner as a fitting conclusion to a successful Conference. He thanked all present for their untiring efforts, which had made all the events pass off so smoothly. Mr. E. R. Cross and Mr. E. M. Chapman also spoke, and many letters of appreciation were read from those who visited the Conference. During the evening a suitably engraved cake-stand was presented to Mrs. Whitfield by Mrs. W. R. Eyre and Mrs. E. R. Cross on behalf of the Ladies' Committee as a mark of gratitude for the efficient manner in which she had discharged the duties of chairman. Short speeches were made by Mrs. Whitfield, Mr. F. G. Hines, Mr. J. Chapman, and others. A very enjoyable evening passed all too quickly.

Sheffield

Trade has been so bad of late that in some areas the returns have been reduced by half.

Sheffield Masons have been in evidence at more than one gathering held in London recently.

The man recently sentenced for obtaining drugs from local chemists by means of forged orders was, at one time, assistant to a city pharmacist.

Payments for Insurance dispensing during the month amount to 1,282*l*. The re-checked prescriptions adjustments are to be paid. Any grievance under the mile area clause should be reported to the secretary of the Pharmaceutical Committee.

Miscellaneous

POISON-LICENCE GRANTED.—A licence under Section 2 of the Poisons and Pharmacy Act, 1908, has been granted to Mr. J. G. Hamling, Barnstaple.

FIRE.—An outbreak of fire occurred on July 5 at the premises of Mr. J. W. Walmsley, chemist and druggist, New Hall Lane, Preston. The damage was not extensive.

ST. DUNSTAN'S HOME.—Sir Arthur Pearson, in an advertisement in this issue, thanks those chemists who devoted the contents of their weighing-machine money-box to St. Dunstan's Home for Blinded Ex-Service Men. Sir Arthur hopes that a similar effort will be made this year, and he will be glad to supply boxes, weight-cards, and posters on receipt of postcard addressed to the Treasurer, Headquarters of St. Dunstan's Work, Inner Circle, Regent's Park, London, N.W. 1.

GERMAN DEBT RECOVERY.—The Board of Trade announce that by an agreement made with the German Clearing Office now awaiting the approval of the Reichstag, the time for lodging claims with the British and German Clearing Offices by their respective nationals under Article 296, Section III., Part X. of the Treaty of Versailles has been extended to September 30, 1921. No further claims under the above Article will be accepted after that date by the Clearing Offices concerned.

LONDON CHEMISTS' GOLFING SOCIETY.—The competition for the Hill cup and Captain's prize was played at Crews' Hill recently. Mr. W. Duncan, one of the founders of the Society, won both events, his first-round score reading 95−18=77 and the second round 2 up on bogey. Other scores were :

M. Carmichael	86− 8=78
W. Jones	92−14=78
L. Hammer	93−13=80
C. Macdonald	86− 5=81
T. E. Lescher	93−10=83
J. Beattie	97−14=83
H. Marshall	99−16=83
J. Deas	101−18=83
W. Main	95−10=85

The Burgoyne cup will be played for on July 14, 16, and 17, under the same conditions as the Sanger cup.

NAVY AND ARMY CANTEEN BOARD.—The trading operations of this body, now known as the Navy, Army, and Air Force Institutes, have been the subject of much adverse comments by retail traders and others. On June 29, at the House of Commons, a deputation representative of trading interests throughout the country waited upon Mr. Austen Chamberlain, Sir L. Worthington-Evans (Secretary of State for War), Major Leslie Wilson, Colonel Stanley (Financial Secretary to the War Office), and Mr. L. C. W. Amery (Financial Secretary to the Admiralty) to protest against the trading operations of the above Board, which it is claimed is a monopoly and practically State trading. The deputation was sympathetically received, the interview lasting nearly two hours. While Mr. Chamberlain and Sir L. Worthington-Evans were not prepared to support the abolition of the Navy, Army, and Air Force Institutes, yet they appeared to be impressed with the arguments of the deputation as to limiting the operations of the Board. They further promised seriously to consider the arguments put forward by the deputation, and asked that the proposals made should be set down in writing and submitted at an early date.

PLATINUM IN BRITISH COLUMBIA.—Recent investigations suggest that the Fraser River and adjacent territory of British Columbia constitute one of the principal platinum deposits in the world. Production in this district is to be increased, and new plant is being erected and work will start shortly.

Irish News

Powers of Registered Druggists

Mr. Fred Storey, President of the Chemists' and Druggists' Society of Ireland, has received from Mr. W. A. Lindsay, M.P., South Belfast, the following letter, sent that gentleman by Sir John Baird, M.P., Under-Secretary for the Home Office :

On June 10 you forwarded to me some representations which you had received from Belfast on the subject of the Regulations made under the Dangerous Drugs Act with special reference to their application to the "chemist and druggist" in Ireland. Just after I received your letter Mr. Fred Storey, the representative of the chemists and druggists who had come to London, called at the Home Office and received explanations as to the effect of the Regulations, and, as you know, the question was subsequently discussed in the House on a motion by Captain Craig. The statement I was able to make in the debate was, I think, regarded as satisfactory, and the motion was withdrawn. I will just recapitulate the main points.

Under the amended Regulations the "chemist and druggist" will be able to sell any of the preparations containing morphine (including such common household remedies as Dover's powder and gall and opium ointment) which have been exempted from the operation of the Regulations (see Schedule II. of the Regulations). Secondly (and this was the point on which their representative, Mr. Fred Storey, laid most stress in his interview at the Home Office), arrangements will be made to enable farmers to purchase the laudanum they require for the purpose of their business, and the chemist and druggist will be able, in conformity with those arrangements, to supply them.

Lastly, the special difficulty under which the chemist and druggist was alleged to labour, as compared with the pharmaceutical chemist, was that he is prohibited by the Irish Pharmacy Acts from "compounding" medical prescriptions. It was feared that this prohibition, coupled with the provision in the Regulations that the drugs may only be supplied to the public on a doctor's prescription, would prevent him from supplying any of the drugs to the public—even certain household remedies in ordinary use. Apart from the fact which I have already mentioned that certain common remedies are exempted altogether from the Regulations, we have been advised that the prohibition of "compounding" does not apply to the selling of any ready-made preparations which may be ordered by a doctor, and which do not require any mixing of ingredients to be done by the chemist himself. As it is suggested in the papers you sent me that we have gone beyond our powers in making these Regulations, I should add that we are advised the Regulations are perfectly valid, and that the restrictions placed on the sale of these dangerous drugs are essential if we are to carry out our international obligations and confine their use to legitimate purposes.

Mr. Storey expresses the opinion that this letter changes completely the status of registered druggists. The only thing druggists cannot do now is compound or make up medical prescriptions. It is expected that the matters will be brought before the Pharmaceutical Council at the meeting fixed for July 12.

Belfast

At the Police Court, on June 30, Joseph Foots was charged with breaking and entering the pharmacy of William R. Stinson, North Street, and stealing a camera. Accused was committed to the Assizes.

With the object of assisting the funds of a tercentenary bazaar to be promoted in the summer of 1922 by First Bangor Presbyterian Church, an enjoyable function in the form of a "gipsy tea" was held recently in the grounds of Stoneleigh, Bangor, the residence of Mr. T. W. McMullan, M.P., and Mrs. McMullan. A vote of thanks was accorded to Mr. and Mrs. McMullan, whose efforts thus realised 100*l*.

At the Recorder's Court, on June 29, Mr. John Long, R.D., claimed 50*l*. compensation for damage to glass during a riot at his premises, 10 Castlereagh Road, last year. A settlement was arrived at by which a decree for 30*l*. was given.—Mr. R. Stinson, Ph.C., 111 North Street, claimed 40*l*. for malicious injury to his property in a disturbance. The case was settled, a decree for 20*l*. 6*s*. 8*d*. being given by consent. The respondent in each case was the City Corporation.

Scottish News

Brevities

Mr. Charles Stewart, chemist and druggist, Kirkcaldy, recently gave an address on the Dangerous Drugs Act before the members of the local Rotary Club.

While working at the premises of Alex. Walker & Co., Ltd., chemical manufacturers, Irvine, on June 27, an engineer named Murdoch was accidentally killed, being crushed between a pinion-wheel and buffer.

Mr. Robert Robinson, F.R.S., D.Sc., director of research in the British Dyestuffs Corporation; Ltd., Huddersfield, has been appointed to the chair of chemistry in St. Andrews University, which position became vacant on the appointment of Professor Irvine as principal of the University.

In Glasgow High Court, on June 29, Elizabeth McClure, Fauldhouse, charged with the murder of her child, aged one year and ten months, by administering poison, was found not guilty. A Fauldhouse chemist said he sold the accused an ounce of laudanum. A Motherwell chemist stated that he also supplied an ounce of laudanum to McClure. Defendant, when arrested, made a statement to the effect that she had bought three separate ounces of laudanum, one in Fauldhouse and two in Motherwell. The child had obtained one of these bottles from the table and drank a portion of the contents during her temporary absence from the room.

Edinburgh

Mr. J. Douglas Lunan, son of Mr. George Lunan, F.C.S., Ph.C., Queensferry Street, has passed the B.Sc. examination in pure science at Edinburgh University.

"Edinburgh Public Library," writes a correspondent, "has rather a poor collection of books on pharmacy and materia medica. Curiosity prompted me the other evening to glance through the catalogue, when I discovered that most were out on loan. Asking an idle question regarding one of the newest—a pre-war volume—the assistant stated that the book was overdue."

The annual sports meeting of the Edinburgh Pharmacy Athletic Club was held at Powderhall on June 29. The events, with the exception of two (120 yards handicap and one mile handicap) were confined to the trade. The winning teams in the relay race were : (1) J. F. Macfarlan & Co. ; (2) Raimes, Clark & Co., Ltd. In the five-a-side football Pharmacy United scored one goal and one corner; Duncan, Flockhart & Co., one goal.

Included in the list of nominations for Honorary Fellowships of the Royal Society of Edinburgh are : Dr. W. H. Perkin, professor of chemistry, Oxford University; Sir Ernest Rutherford, Cavendish professor of experimental physics, Cambridge University; Sir Ronald Ross, K.C.B., K.C.M.G., consultant in malaria, Ministry of Pensions, London; Sir Jethro J. H. Teall, lately director of the geological survey of Great Britain and of the museum of practical geology.

In the Court of Session, on June 22, Andrew Telfer Dickson, jun., Gifford, sued St. Cuthbert's Co-operative Association, Ltd., for 250*l*. as damages for the alleged contraction of asthma through residence in a house, belonging to defendants, in which there was a smoky chimney. Lord Ashmore, in dismissing the action with expenses to the defendants, said he did not consider the plaintiff had produced evidence of fault or negligence on the part of the defendants, nor did he think that the circumstances justified plaintiff's complete neglect of all precautions for his own immunity.

Glasgow

The bowling section of Glasgow Pharmacy Club will play their next competition on Bellahouston green on July 12.

The latest *x*-ray apparatus for the treatment of cancer has recently been installed at the Cancer Hospital. The only similarly equipped institution in Great Britain is the West London Hospital.

Belgian News

M. V. Haazen, the President of the Nationale Pharmaceutique of Belgium, will be the representative of Belgian pharmacists at the meeting of the general association of French pharmacists, which will be held at Tours and at Blois on July 15 and following days.

Electa Anniversary.—During the month of July the "Electa," the Brussels co-operative buying association of pharmacists, will celebrate the twenty-fifth anniversary of its foundation. This event will be made the occasion of inaugurating the association's new premises.

In the Public Service.—M. J. Coelst, a pharmacist and also mayor of the royal suburb of Laeken, has been elected an alderman of the city of Brussels. M. Coelst is a polished speaker and a brilliant writer. His contributions to the "Journal de Pharmacie de Belgique," signed "Lucius Vindex," possess, in addition to the felicitous point of view adopted by the author in relation to many subjects of interest to the pharmacist, a high literary merit.

"Pilules Standaert," a well-known Belgian speciality, which for three generations has been the property of the family of that name in Bruges, is now appearing in an altered form—viz., with a sugar-coating. From a purely business point of view this is regarded as a mistake, as it is not advisable to alter the appearance of a well-established remedy with which the public is thoroughly familiar. This has been proved recently, when another well-known speciality, the "Poudres de Cock," was changed and issued in the form of "Cachets de Cock," whereby they lost a large amount of their popularity. The public has its traditions, and it is inadvisable to interfere with its way of thinking.

Antwerp Pharmaceutical Society.—At the last meeting the secretary, M. Van Schoor, read an interesting paper (which will shortly be published) on the history of the pill throughout the ages. The members of the Society recently paid a visit to the works of the Biscuiteries et Chocolateries Ed. De Beuckelaer at Antwerp. Under the guidance of M. Charles Donnez, a pharmacist and one of the directors of the company, the visitors, numbering some sixty persons, spent four hours in seeing the plant of this model establishment, which has introduced a new industry in Belgium, due to the perseverance of M. Ed. De Beuckelaer, who by his own efforts has worked his way up from a workman to an important manufacturer.

War Memorial.—A handsome booklet has been issued by the combined medical and pharmaceutical Press of Belgium to commemorate the unveiling of the monument erected in the Parc Leopold, Brussels, to the doctors and pharmacists who fell on the field of battle, or were victims of German barbarity. The monument represents a female figure with one arm resting on a shield bearing the inscription, in French, "To those who died in order that the country should not perish." The inscription on the base reads : "To the members of the Belgian medical and pharmaceutical professions who fell on the field of honour or were victims of German barbarity, 1914-1918." On the back of the monument are inscribed the names of twenty-three doctors who fell in battle, as well as of seventy-one medical students, in addition to five doctors and eleven pharmacists, shot by the Germans. On behalf of the pharmaceutical profession, M. Breugelmans, secretary of the Nationale Pharmaceutique and editor of the "Journal de Pharmacie de Belgique," made a brief speech at the ceremony, in which he recalled the hardships endured by the Belgian pharmacists under the German occupation. In it he reminded his hearers of the fact that forty-four pharmacies were pillaged and damaged by the German soldiers, eleven were almost completely destroyed, and twenty-nine were razed to the ground by bombs or as a result of fire in the course of military actions, in addition to forty-six businesses which were wantonly set on fire by the German soldiers. He then recalled the events which led up to the shooting of the nine pharmacists at Aerschot, Andenne, Dinant, and Tamines, briefly reviewing the facts and circumstances under which they met their death.

Sale of Cocaine

At Marlborough Street Police Court, London, on June 30, Doris Burton (eighteen), daughter of a chemist and druggist, of Mile End Road, Bow, was charged on remand with being in possession of cocaine and offering it for sale in Oxford Street to an unauthorised person (*C. & D.*, July 2, p. 41). Mr. Muskett (prosecuting for the Commissioner of Police) said that, according to the father's explanation, the bottle had been handed by him to the prisoner to take to a "Dr. Von Shäler," of St. John's Wood. No such person is to be found either at the address given or in the medical register. The cocaine register kept by the father of the prisoner appeared to be in order and complied with the law. The cocaine in question, added Mr. Muskett, was found on analysis to be adulterated. Police-sergeant Marks gave evidence of arrest, and the sergeant said the girl made the statement, "I am selling this for my father." Witness said he had examined the father's cocaine register and found a number of orders for cocaine from "Von Shäler," specialist, Hampstead, but he had been unable to find such a person. The contents of the bottle weighed an ounce and a half and consisted of a top layer of 129 grains of cocaine hydrochloride, a middle layer of 592 grains of Epsom salts, and at the bottom 9 grains of morphine hydrochloride.

The father of the prisoner, Arthur Lambeth Burton, called as a witness, who said he had been a registered chemist in Mile End Road for over thirty years, gave evidence. He was formally cautioned by the magistrate, and in reply to Mr. Muskett said that his daughter helps him in dispensing and putting up stock. He had received the orders for cocaine and other drugs since April from "Dr. von Shäler," who, his daughter said, was a German specialist. She knew him to be one of the doctors who attended patients at Hanover House, St. John's Wood.

Mr. Muskett: Did you—a dealer in poison like this—take the trouble to find out for yourself whether there was such a person as Dr. Von Shäler?—I only took her word for it.

Did you make any inquiry as to what hospital he was at?—I was told it was Hampstead. Further questioned, witness said there was no address or date on some of the orders from the doctor, and he (witness) wrote these details on some of the orders.

It looks at a glance as if this handwriting on top of these orders is similar to the entries in the cocaine book. Did Dr. Von Shäler ever pay for anything?—He paid for one lot. Witness had never received any payment from Dr. Von Shäler, except through his daughter.

For a great number of these goods you have never been paid at all. Did you not take steps to get it?—She told me he had been called away.

Can you account how this bottle [produced], which is supposed to contain pure cocaine hydrochloride, proves on analysis to consist largely of Epsom salts and morphine hydrochloride?—No, I cannot. That bottle was sent out by me unopened. It must have been tampered with after it left me.

Mr. Fuller (for prisoner): I suggest that the prisoner told you that Dr. Von Shäler had given her an order for a number of things which happened to contain cocaine?—Yes.

Mr. Muskett: It has been brought to the notice of the police that on May 4 this girl took the bottle of cocaine, which contains 2 oz., to an actor at the Vaudeville Theatre and offered it to him for sale, saying at the same time she could get an unlimited supply. She was seen first by the actor, who sent for the musical director of the theatre. The latter very sensibly took the bottle from her. She then left the theatre, and the two gentlemen communicated with the police. This was not the charge being investigated by the court.

Mr. Fuller asked that the girl's age should be taken into consideration. Since arrest she had been in hospital. He suggested that some inquiry should be made as to her condition, physically and mentally.

The prisoner was sentenced to three months in the second division on each of the two charges, the sentences to be concurrent.

Inquest on Sir A. Newton

The inquest on the body of Sir Alfred Newton, chairman of Harrods, Ltd., and a former Lord Mayor of the City of London, was resumed at Chelsea on June 30. The coroner mentioned that the analyst to whom the contents of the stomach had been submitted had not completed his examination. (*C. & D.* 1., 1921, p. 863.) Mrs. Andrews, the dispenser, was recalled. Mr. Temple Martin, for Mrs. Andrews, said he had been asked to represent the Apothecaries' Hall, who supported her, as she had gone through a full course of training and had received the highest diploma they could give her. The coroner said he was satisfied that the witness was fully qualified. Referring to the distilled water used by her in making up the medicine, witness said there had been no complaint about it. She had afterwards used water from the same bottle. Replying to Mr. Curtis Bennett, witness said on that day the bismuth and the tragacanth bottles were nearly empty, and she took some of the powders from the stock bottles to make up the quantities. If there had been strychnine in either the dispensing or the stock bottles a number of people would have been killed. There had been no complaints about other medicines. Robert James Hughes, assistant in the dispensing department, said he wrapped up the bottle in question. It was corked and labelled, and contained in a sealed letter. The cork was never removed to his knowledge. Evidence was given by H. Hawes, porter in the dispensary, P. L. Garner, despatching clerk, and T. Hewett, another clerk, regarding the transit of the medicine from the dispensary to the delivery van. Each declared that the bottle was properly packed. Richard Williams, the van driver, described how he left the bottle, intact in its wrapper, at Sir Alfred's house. Madeleine Vescherre, kitchenmaid, said she unpacked the bottle, but could not remember there being any inside sealed paper similar to that on a bottle shown her. Sidney Cooper, manservant, stated that the medicine remained in the pantry until the following morning, when he put it in its usual place on the landing. There was still some medicine in the old bottle. Witness did not see it again until June 20, when he was told to take it to the stores. About one dose had been taken from it. Witness had never heard of any rat poison being used in the house or of such a thing being purchased or kept there. Ivy Wright, parlourmaid, said that the bottle was full at breakfast-time on June 20. At 11 o'clock a portion of the medicine had gone. Witness generally washed the medicine glass every morning, but on Monday evening she noticed that someone else had done this. The inquiry was adjourned until July 21.

Coming Events

This section of the "C. & D." is reserved for advance notices of meetings or other events. These should be received by Wednesday of the week before the meetings, etc., occur.

Wednesday, July 13

The Thames Valley Pharmacists' Association. Visit to Maw's Recreation Ground and Factory, Barnet. Charabancs leave Kingston Hotel at 2 P.M., Twickenham (Town Hall) 2.15 P.M., Richmond (Railway Station) 2.30 P.M. Tickets for the return journey, 6*s.* each. Family tickets (for three), 17*s.* 6*d.*, if applied for by July 6. Tea will be provided by S. Maw, Son & Sons, Ltd. The Ealing and Croydon Associations have also been invited. Trains from Broad Street 1.25 and 2.10 P.M.

Thursday, July 14

Proprietary Articles Trade Association, Holborn Restaurant, London, W.C., at 3 P.M. Annual meeting.

Royal Society of Arts, John Street, Adelphi, London, W.C., at 8 P.M. Professor H. E. Armstrong, F.R.S., and Mr. A. C. Klein on "Paints; with reference to Technical Problems and Public Interests."

Scottish Pharmaceutical Federation (Edinburgh Branch).—The first picnic will be held at Tinto, via Lanark and Falls of Clyde, by motor-charabanc, on July 27. The charabanc will leave St. Andrew's Square at 8.30 A.M. Dinner and high tea in the Tinto Hotel, Symington. Tickets (inclusive of meals, 18*s.* 6*d.* each) from members of the Committee up to July 13.

Enolin Tooth Paste Competition

At Bow Street Police Court, London, on July 6, before Mr. Graham Campbell, Alphonso and Enrique Carreras, King Street, Hammersmith, and Mr. Amos Jones, chemist and druggist, 78 Long Acre, London, W.C., were summoned to answer charges of having published a proposal for the sale of chances in a lottery known as the Enolin Tooth Paste Competition (see *C. & D.*, July 2, p. 46). Counsel for the defence were Sir Ernest Wild, K.C., and Mr. Gordon Smith (instructed by Messrs. Bull & Bull) for Messrs. Carreras, and Mr. Walter Frampton (instructed by Messrs. Neve, Beck & Kirby) for Mr. Jones. Mr. Herbert Muskett, representing the Commissioner of Police, explained that the proceedings were instituted to determine whether the Enolin Tooth Paste Competition constituted a breach of the law as to lotteries. His submission was that the court had here to deal with as simple and elementary a lottery as could be placed before it. Messrs. Carreras, the principal defendants, were highly respectable traders who were the proprietors of a tooth paste, which was sold in tubes, and it was no doubt for the purpose of increasing the sales of that article that they had devised the scheme to which exception was taken. It was advertised in the "Daily Mail" of May 19. There was a coupon which was to be posted with a 1*s.* 3*d.* Enolin tooth paste carton container, or two 9*d.* ones, to Messrs. Carreras, together with the competitor's estimate of the total number of large containers (two small ones counting as one large) that would be sent in during the period of the competition—viz., from April 15 to July 15, 1921. Blank spaces were left to be filled in with the figures of the estimate and the name and address of the competitor. The inducements offered were a first prize consisting of a Lancia motor-car, value 2,250*l.*, and 500*l.* cash, a second prize of 1,000*l.*, a third of 250*l.*, a fourth of 100*l.*, and several smaller money prizes, together with 3,000 consolation prizes, the latter apparently consisting of material for cleansing one's teeth and shampooing one's hair. The conditions of entry for the competition were set forth as :

Send no money. Take one of the coupons or a piece of paper (or a competition card which your chemist can supply), and fill in with ink your name and address and your estimate of the total number of carton containers to be forwarded by competitors from April 15 to July 15, etc. If a correct forecast is not received the first prize will be awarded to the competitor whose estimate is nearest thereto.

Then followed provisions as to the division of the prizes in the event of two or more competitors being equally correct in their estimates, and it was stated that any person in the United Kingdom sending in, other than the staff or the families of the proprietors and of the judges (a firm of chartered accountants), was eligible to compete. The advertisement contained an illustration of the motor-car, which was enough to make one's mouth water. The advertisement also announced that "all prizes must be won." Such was the scheme as advertised—a pure chance competition. There are no means by which any person exercising care or skill or research could possibly estimate with any reasonable degree of accuracy what would be the exact number of tubes of this tooth paste bought and the cartons sent in during the period specified. Mr. Muskett contended that it was purely a chance competition, and therefore an infringement of section 41 of the Lotteries Act. After the competition had been extensively advertised for some time, Messrs. Carreras were asked if they were prepared to discontinue it, and Mr. Alphonso Carreras replied :

We cannot stop it at this stage. It has gone too far, and if stopped now would ruin our business because the public would immediately say the whole thing was a fraud. We shall fight to the last to prove to the public that we are genuine and have done everything to keep faith with them. The scheme is costing us 15,000*l.* We took legal advice before we started, and as we charge nothing for entrance fee we consider we do not violate the law.

Mr. Muskett added that it was not contended that the competition was not genuine, but it was submitted that it came within the generally accepted definition of a lottery—namely, a distribution of prizes by lot or chance. If an establishment like that of Messrs. Carreras could afford to spend that sum in bringing to the notice of the public this particular scheme, one could form some conclusion as to the amount of profit they might expect to garner if it was carried to its conclusion. Mr. Muskett went on to describe the purchase of a tube of the tooth paste at the shop of Mr. Jones, and the exhibition in his shop-window of a poster advertising the scheme. He would like to reserve his remarks on the legal aspect of the case until he had heard what his learned friends had to say in answer to the summonses, but he might mention that there were three leading cases or precedents bearing on the matter; these being Hall *v.* McWilliam (the "spot" competition in the "Sun" newspaper about twenty years ago), Willis *v.* Young and another (the gratuitous distribution of a numbered medal), and that of Minty *v.* Silvester in 1915—the most recent pronouncement. The generally accepted definition of a lottery, he might remind the court, was "a distribution of prizes by lot or chance," and that was a definition which he contended was applicable to the facts of the present case. Witnesses were then examined, among them being Detective Sergeant Walter Sharp, who said that when he served Mr. Jones with his summonses Mr. Jones said : "This is unfortunate for me, I have dealt with A. & E. Carreras for some time, and when they sent bills and circulars asking me to take up the competition scheme I thought it a good thing." By Mr. Frampton : When he gave warning to Mr. Jones the latter had ceased publishing the advertisement and the giving of coupon-cards to customers. Detective Bridger produced the placard advertising the competition which had been displayed in Mr. Jones's shop-window. Mr. Jones took it from the window and gave it to him saying : "Now that I know the scheme is illegal I will at once discontinue advertising it and distributing the chances." Mr. Arthur Knight, an advertising agent, cross-examined, said he was taking part in the competition and considered he had exercised skill in arriving at his estimates. Asked to state in a general way the methods he had followed in arriving at his estimates, the witness replied that in the first place he had sought to arrive at the combined circulation of the various newspapers in which the advertisement appeared, and he got at that by taking their net sales, which were easily obtainable. Having ascertained the circulation of the papers, the next step would be, by inquiry and observation, to estimate how many of the public would be users of tooth paste. Then one would have to take into account the number of competing tooth pastes on the market. One would also have to calculate what proportion of the buyers of the Enolin tooth paste would neglect, or not think it worth while, to fill up the coupons. The witness went on to mention a number of other factors to be taken into consideration, and indicated how in his opinion the various necessary data could be investigated. He had made his calculations on different bases, but they gave practically identical results. In reply to the clerk, the witness said one element in forming an estimate would be to calculate the number of sales that would be necessary to cover the costs of advertising, the value of the prizes, etc., and then to add to that the further number of sales necessary to provide a reasonable profit. The witness explained his theories in considerable detail, and Mr. Muskett said it was quite making his head ache. (Laughter.) Sir Ernest Wild intimated that he was going to argue that the competition was perfectly legal, and said his clients proposed to pay the prizes whatever the result of the case was. Mr. Muskett : The object of the prosecution is to stop it. The hearing was adjourned.

The burglary at the Municipal Laboratory is sarcastically commented on by the Parisian Press, the establishment being lodged under the same roof as the Prefect of Police himself. The burglars visited the different laboratories on the ground floor and in the basement, and carried off all the platinum capsules, retorts, etc. (about a hundred objects in all), valued at 130,000 fr.

Legal Reports

Deficient Mercury Ointment.—At Hull Police Court, on June 29, Mr. Philip Brocklesby, chemist and druggist, Newland Avenue, was summoned under the Sale of Food and Drugs Acts for selling mercury ointment deficient in metallic mercury to the extent of 17 per cent. For the prosecution it was stated that an inspector who visited defendant's shop asked for 4 oz. of mercury ointment and defendant supplied him with 3¾ oz. This was found to contain only 13 per cent. of metallic mercury. Defendant, who was represented by Mr. Lewenstein, stated that he took over the business in December 1920, and the mercury ointment was part of the stock. Mr. Lewenstein submitted that there was no real case to answer. The magistrates, in imposing a fine of 21*s.* for a technical offence, intimated that they believed defendant had acted inadvertently.

Water Analysis.—At the Town Hall, Colchester, H. L. B. Cooke, The Fort, West Mersea, was summoned by the Lexden and Winstree Rural District Council in regard to a well on his premises, the water of which was so polluted as to be injurious to health. The Council applied for it to be closed. Mr. A. W. Nunn, Ph.C., Colchester, who twice analysed the water for the Council's medical officer, found it unfit for drinking purposes. Defendant had had a sample analysed by Mr. W. Lincolne Sutton, Norwich, who certified that it was fit to drink. The solicitor for the defence said that Mr. Nunn "might be able to serve a box of Beecham's pills as well as anyone in Colchester, but he had not all the qualifications of Mr. Sutton." Mr. Tompson, for the Council, protested against the reference to Mr. Nunn, who is an analyst of large experience who had specialised in water analysis. The case was adjourned, and on June 25 a report by the county analyst was produced by the clerk of the Rural District Council, the chemical part of which confirmed the analysis made by Mr. Nunn. The Bench decided to close the well, and allowed costs for the analyses, solicitors' and court fees, amounting to 11*l.* 18*s.* 6*d.*

New Companies
and Company News

P.C. means Private Company and R.O. Registered Office

Babette, Ltd. (P.C.).—Capital, 300*l.* Objects: To carry on the business of manufacturers of and dealers in toilet creams and powders, perfumes, soaps, bath-salts, pharmaceutical, medicinal, chemical, and other preparations, etc. Solicitor: H. I. Jones, 62 London Wall, London, E.C.

Endurite (1921), Ltd. (P.C.).—Capital, 7,500*l.* Objects: To acquire the trade-mark "Endurite" from "Endurite, Ltd.," and to carry on the business of manufacturers of and dealers in oils, varnishes, and colours, etc. Solicitor: W. H. Cahill, 22 Basinghall Street, London, E.C.

Jonathan Fallowfield, Ltd. (P.C.).—Capital, 20,000*l.* Objects: To take over the business of a wholesale and retail photographic dealer carried on by J. Fallowfield, of 146 Charing Cross Road, W.C. The first directors are: F. W. Hindley, F. D. Hindley, and H. J. Traise. R.O.: 146 Charing Cross Road, London, W.C.

Crusader Reviver Co., Ltd. (P.C.).—Capital, 1,000*l.* Objects: To take over the business of manufacturers of inks, stains, dyes, waxes, cleaning devices, and preparations for polishing metals, wood, leather, and other goods carried on at Northampton and elsewhere as the "Crusader Reviver Co." R.O.: Langham Place, Northampton.

Simpson's (Longsight), Ltd. (P.C.).—Capital, 500*l.* Objects: To take over the business of Simpson's Midway Drug Store, 920 Stockport Road, Manchester, and to carry on the business of chemists, druggists, opticians, extractors of teeth, stationers, photographic-apparatus dealers, leather-goods dealers, etc. The first directors are: J. S. Simpson, 920 Stockport Road, Manchester; and C. Simpson, 11 Milwain Road, Levenshulme, Manchester. R.O.: 920 Stockport Road, Longsight, Manchester.

J. Spittle & Co., Ltd. (P.C.).—Capital, 5,000*l.* Objects: To carry on the business of general merchants and manufacturers, dyers, enamellers, drysalters, importers, and manufacturers of and dealers in pharmaceutical, medicinal, chemical, mineral, industrial, and other preparations and articles, cements, oils, paints, pigments, stains, and varnishes, and manufacturers of and dealers in chemical, photographic, and scientific apparatus and materials, etc. R.O.: 158 Aldersgate Street, London, E.C. 1.

Joint Stock Companies.—Notice has been given in the "London Gazette" that the names of the undermentioned companies have been struck off the register and the companies dissolved: Abbinal Chemical Products, Ltd.; Aero-Chemical Syndicate, Ltd.; Atwell Chemicals, Ltd.; Barking Chemicals Co., Ltd.; Radium Salt Co., Ltd.; Temple Laboratories, Ltd.; "Zoel" Antiseptic Co., Ltd.

J. C. & J. Field, Ltd.—The report for the year ended March 31, 1921, states that the funded bonds, a contingent liability in previous year's balance sheet of 23,869*l.*, have been redeemed, and preference shareholders are now upon 7-per-cent. basis as regards dividend. After providing for repairs and depreciation and for large decrease in stock values, and including amount due from Government, there is available 19,058*l.*, less bank interest, income-tax, and directors' and auditors' fees, legal charges, etc., *re* new capital and expenses of secretary's department, leaving 12,355*l.*, plus 25,295*l.* brought in, less excess-profits duty 1920 and corporation tax, making 15,508*l.* The directors recommend a dividend of 10 per cent. on paid-up Ordinary shares, less tax, carrying forward 4,935*l.*

Apollinaris and Johannis, Ltd.—The profit for the year to March 31, 1921, was 10,459*l.* All advertising outlays, both English and foreign, together with usual amounts for depreciation, have been written off, as well as heavy initial expenditure incurred in restarting business. Sales now show a steady expansion. According to scheme of arrangement made with debenture holders on August 16, 1916, 8,670*l.* has been paid in cash for interest on debenture interest certificates and charged against profits earned during year. Owens European Bottle Machine Co., of Ohio, have made a further return of capital upon shares held by Apollinaris Co. amounting to 3,324*l.* Capital suspense account amounted in preceding balance-sheet to 105,025*l.*, to which has been added above 3,324*l.* making 108,349*l.* Auditors in their report state that claims made against the German Government are not included in accounts.

Parke's Drug Stores, Ltd.—The twenty-sixth annual general meeting was held at 65 Harmood Street, N.W. 1, on June 30, Mr. John Murison, chairman and managing director, presiding. In moving the adoption of the report and accounts for the seventeen months ended February 28, 1921, he said that during the past year the company have purchased the lease of their Clapham Junction branch and opened two new branches, one at Ashbourne Parade, Temple Fortune, and one at High Street, Watford, both handsome premises. In consequence of these new branches the leases investment and plant accounts are up. The company have also closed the premises and disposed of the lease of the Shepherd's Bush branch, as this business has been unsatisfactory for many years. The company have also taken up the balance of the unissued ordinary share capital. Government taxation, consisting of excess profits duty, corporation tax, income-tax, and municipal taxes, has been very oppressive, and to a certain extent has retarded the progress of the business. The prices of all their commodities have fallen to a considerable degree, and in order to safeguard the interests of the shareholders the company have depreciated their prices of stock to the market values of February last, the end of the financial year, which has consequently resulted in a considerable loss of profit. In the report the company indicated that sales were keeping up well. The report was unanimously adopted.

Pharmaceutical Society of Great Britain

Council-meeting

A MEETING of the Council was held at 16 Bloomsbury Square, London, W.C., on July 6. All the members were present, with the exception of Mr. J. R. Young. There were no minutes, those of the meetings held on May 31 and June 1 having evidently been submitted and confirmed at a private meeting held the previous evening. The President intimated that there were no questions.

RESIGNATION OF OFFICIAL

The PRESIDENT stated that it was reported to the Council the previous evening that Mr. Gilbert Jones, of the Society's office staff, had asked to be relieved of his duties on account of the state of his health. In that connection he moved :

That the Council desires to place on record its appreciation of the long, faithful, and efficient service rendered to the Society by Mr. Gilbert Jones for fifty-three years as a member of the Society's staff, and to express a hope that he will enjoy, with benefit to his health, a well-earned period of rest.

Members of the Society throughout the country would be glad to know, the President went on to say, that the Council did not accept the resignation of Mr. Jones, but rather granted him leave of absence for a year, accompanied with a year's salary in advance. Mr. Jones is seventy-eight years of age, and it might seem strange to those who did not know him that a man of such advanced years should have been able regularly to attend to his duties right up to about three weeks ago. Those who were acquainted with Mr. Jones knew that it was his wonderful vitality and tremendous enthusiasm in and love for his work that had enabled him to do so, and also carry out his duties with every satisfaction to the Secretary of the Society and to every member of the Council. Mr. Jones is going out to Canada, where many of his children are at the present time, and the Council regarded this as an excellent arrangement. It was their cordial wish that he would have a well-earned period of rest and that his health would be materially benefited thereby.

The VICE-PRESIDENT seconded the resolution.

The TREASURER, supplementing the observations of the President, stated that during the time he had been treasurer of the Society he had been brought in close touch with Mr. Jones. One could not help admiring the splendid character of his work, which always commanded the commendation of members of the Finance Committee for the accuracy and care with which it was done.

Mr. WHITE stated that never in the whole course of his business experience had he met with handwriting to equal that of Mr. Jones.

The resolution was then unanimously adopted.

ELECTIONS AND RESTORATIONS

Thirty-four persons were elected members of the Society and fifteen as student-associates; three were restored to the Register and 244 to the Society. The Registrar reported there had been thirty-eight registrations of apprentices as students since last meeting.

JACOB BELL AND MANCHESTER SCHOLARSHIPS

The report of the Committee stated that the examination for the Jacob Bell Memorial Scholarships was held on June 21, and that seven candidates competed—four from London and three from Manchester. The minimum number of marks allowed for qualifying was 400, or two-thirds of the maximum standard. Two of the candidates obtained the award of scholarships. There were three candidates for the Manchester Association Scholarship. Each of the candidates adopted a motto written on the sealed envelope containing his or her name.

The PRESIDENT opened the sealed envelopes and announced the awards of the examiners as follows : Jacob Bell Memorial Scholarships, (1) Hugh Nicholas Linstead; (2) Joyce Mary Carr. Manchester Association Scholarship, Maude Pilkington. He added that the marks awarded the candidates for the Jacob Bell Scholarships were on a fairly high level. Indeed, only two of the candidates failed to get the number which would have qualified them for the scholarships. It was then formally agreed, on the motion of the President, seconded by the Vice-President, that the awards mentioned should be made. The respective districts in which the winners of the scholarships live were not mentioned in public.

HERBARIUM COMPETITION

The PRESIDENT announced that the Council were not in a position to recommend an examiner for the Herbarium Competition in view of the fact that there was uncertainty as to whether Mr. Holmes would be able to cover the necessary work as formerly.

CORRESPONDENCE

The Secretary intimated receipt of letters from the Clerk of the Privy Council approving the list of additional examiners and also the amendment of the regulations regarding examinations for the First Class Army Education Certificate.

The London County Pharmaceutical Association wrote tendering the Council thanks for the use of the Society's Library for its meetings during the past twelve months.

A letter was received from the Clerk of the Privy Council covering the report of the official visit of Dr. Willcox to the Society's various examinations.

The secretary of the North British Branch wrote intimating that at a meeting of his Executive, held at Edinburgh on June 29, Mr. S. Kitchin (Glasgow) had been elected chairman and Mr. John Johnstone Forbes (Perth) vice-chairman, and also the result of the election of the Executive.

A letter was read from the secretary of the Joint Board of Scientific Societies stating that an inquiry had been received from one of the affiliated societies as to whether an arrangement could be made by which members of one scientific society could obtain the transactions or proceedings of the other societies at a slightly reduced rate. The Council was asked to consider this proposal. The letter was referred to the "Journal" Committee.

A letter from the National Association of Women Pharmacists was read, asking the use of the Lecture Theatre for a lecture to be given on October 12. It was decided that the request be granted.

The secretary of the London County Pharmaceutical Association wrote stating that in the opinion of his committee, unless the present situation as between branches of the Retail Pharmacists' Union and the local associations was more clearly defined, there was a danger that the latter might suffer. While his committee were anxious for the formation of branches of the Union, they were concerned in the preservation of the Society's organisations in the form of the existing local associations, and in this connection suggested the advisability of a conference between the Council and the Executive of the R.P.U. to evolve some scheme that would be advantageous to the Society's organisation and that of the R.P.U. His committee felt that at this important juncture a consultation between the two bodies was desirable.

The PRESIDENT intimated that a letter similar to the one received had been sent by the London County Pharmaceutical Association to the Retail Pharmacists' Union. He felt sure all the Council would be perfectly willing to take part in such a conference as the one suggested.

Mr. ROWSELL said the whole question raised in the letter was before the Devonshire Association a fortnight ago, and its members manifested great keenness on the point at issue. They did not want to get rid of an association which had done so much good work for the county, but with such a multiplicity of meetings as had arisen in consequence of the formation of an additional organisation—the branch of the R.P.U.—it was essential that the Council should endeavour to have some scheme devised by which the existing difficulty could be met by

co-ordinating the two bodies in each locality—the local association and the branch of the R.P.U. They could not, as a Council, afford to lose sight of the value of the work of the local associations.

Mr. MELHUISH expressed his personal gratification with the President's announcement that the Council was prepared to adopt the course suggested. He felt there was a danger of the local associations, which had hitherto formed the bedrock of the Society's organisation, being jeopardised under existing conditions. If these and the branches of the R.P.U. were carried on on separate and distinct lines—if, for example, branches of the R.P.U. were formed and carried on without reference to the existing local associations—there must inevitably be, he would not say antagonism, but a conflict of interests between the two bodies. He had felt from the very commencement of the R.P.U. that before it formed any branches there should be provision for consultations with existing local associations.

The PRESIDENT intimated his readiness to propose that the Council should appoint, say, five representatives to meet a similar number of representatives of the R.P.U. at a conference to discuss the matters raised in the letter from the London County Pharmaceutical Association.

The VICE-PRESIDENT stated that he was quite willing to second such a proposition.

Mr. ROWSELL suggested as representatives of the Council the President, Vice-President, Messrs. White, Guthrie, and Skinner.

Mr. PARRY : Are they all active members of their respective local associations?

The PRESIDENT : I have not the slightest doubt whatever about that.

Mr. ANTCLIFFE thought that, having in view the importance of the matters to be discussed, the number of representatives of the Council and of the R.P.U. should be larger.

Mr. GIFFORD remarked that personally he should like to be one of the representatives selected.

The PRESIDENT said he was quite willing that the whole Council should participate in the proposed conference.

Mr. GUTHRIE mentioned that the same matter cropped up in Scotland quite recently. The Executive of the North British Branch emphatically decided in favour of a small committee being appointed to meet a similar number representing the Scottish Federation. The North British Executive insisted on the committee being a small one, because they wanted to do the work quickly.

The Council then resolved itself into committee and discussed at length whether the number of representatives of the Council to take part in a conference with representatives of the R.P.U. should be large or small. Subsequently in open Council it was agreed that the secretary be instructed to inform the London County Pharmaceutical Association and the Retail Pharmacists' Union that the Council approved the suggestion for a conference contained in the London County Pharmaceutical Association's letter; that the President, the Vice-President, and Messrs. Skinner, Guthrie, White, and Gifford be appointed as the Council's representatives; and that it would be convenient for the conference to be held on Wednesday, August 3, at 3 P.M.

NORTH BRITISH BRANCH

The PRESIDENT remarked that members of the Council would have noticed that Mr. J. S. Kitchen had been unanimously elected chairman and Mr. J. J. Forbes vice-chairman of the North British Executive for the ensuing year. Mr. Kitchen had passed up from the vice-chairmanship. He was sure it was the desire of the Council that their best wishes should be sent to both gentlemen for a successful year of office. Mr. John Gilmour had withdrawn from the Executive prior to the election, the result of which had been published. He was formerly a member of their own Council and well known to most of its present members. With the possible exception of Mr. Currie, Mr. Gilmour had been the oldest member of the North British Executive, and he thought the Council should send their best wishes to that gentleman on the occasion of his retirement.

FINANCE COMMITTEE

The financial statement is summarised as follows :

Receipts since last meeting amounted to 8,824*l.* 0*s.* 3*d.*, comprising the following items: "Journal" and publications, 2,538*l.* 10*s.* 10*d.*; restoration and registration fees, 77*l.* 9*s.*; penalties and costs, 19*l.* 11*s.* 10*d.*; subscriptions, 482*l.* 9*s.* 6*d.*; examination fees, 5,619*l.*; dividends, 86*l.* 19*s.* 1*d.* Deducting from the total receipts the adverse balance of 425*l.* 15*s.* 9*d.*, and payments ordered at last meeting, there was a balance of 4,181*l.* 4*s.* 9*d.* The other balances were: Benevolent Fund (current account), 1,122*l.* 7*s.* 6*d.*; Benevolent Fund (donation account), 55*l.*; War Auxiliary Benevolent Fund, 696*l.* 8*s.* 8*d.*; and Orphan Fund, 291*l.* 3*s.* 7*d.* The report recommended that accounts amounting to 5,446*l.* 13*s.* 7*d.* be paid, and that the action of the secretary in making payments on account, amounting to 665*l.* 16*s.* 10*d.*, be approved.

The Treasurer, in moving the adoption of the report, said that the Finance Committee had met the auditors of the Society, but had not had time to initiate their new method of dealing with the accounts. They would deal with a number of details before discussing the policy of spending.

BENEVOLENT FUND

The report of this committee recommended payment of grants varying from 20*l.* to 30*l.* to six applicants for assistance.

Miss BUCHANAN, reporting on the results from the stall at the Chemists' Exhibition in aid of the Fund, stated that during the week there was realised from purchases and donations an amount approximating to 340*l.* The amount received in special donations in response to the appeal made early in the year was approximately 650*l.*, making a total of nearly 1,000*l.* from the whole country. That, she thought, they would regard as a very generous response on the part of the chemists of the country considering the present state of trade. (Applause.) She moved that the cordial thanks of the Council be accorded the organisers and proprietors of the Chemists' Exhibition for their much appreciated gift of valuable space at the Exhibition and for their further generosity of relieving the Benevolent Fund Committee of all expenses in connection with the fitting and decoration of the stall.

Mr. CURRIE seconded the motion, which was agreed to, together with the report.

Miss BUCHANAN announced the following special contributions to the Benevolent Fund :

Birmingham Pharmacists' Association (proceeds of whist-drive), 26*l.* 14*s.* 6*d.*; ditto (on occasion of visit to Cadbury's works), 4*l.* 4*s.*; ditto (Garden Party given by Mr. and Mrs. Mann), 14*l.* 1*s.*; ditto (Garden Party given by Mr. and Mrs. Atkinson), 15*l.* 9*s.* 6*d.*; Bradford Chemists' Association (per H. R. Carson), 13*l.* 19*s.* 6*d.*; Cambridge Pharmacists' Association (per A. Deck), 2*l.* 2*s.*; Miss H. W. Davies (Mumbles), small donations collected, 4*l.* 12*s.* 6*d.*; Devon Pharmacists' Association (cash in lieu of goods for stall), 16*l.* 3*s.*; Miss Glew (collected for stall), 4*l.* 18*s.* 6*d.*; Harker, Stagg & Morgan (per H. W. Harrie), 1*l.* 1*s.*; W. R. Harvey (Redhill and Reigate Association), contributions to stall, 12*s.*; Miss C. M. Joyce (Oakham), received in small contributions, 5*l.* 5*s.*; Ladies' Sewing Guild (per H. Skinner), 30*l.*; Leicester Ladies' Committee (per Mrs. R. Blockley), second contribution, 33*l.* 18*s.*; Nottingham Pharmacists' Association, collecting-box (per H. P. Middleton), 1*l.* 11*s.*; F. Orchard (Highbridge), 1*l.* 11*s.*; J. A. Pegg (Mansfield), 10*s.*; Mrs. Plowright (Brighton), in lieu of goods for stall, 1*l.* 1*s.*; Preston Pharmacists' Association (ladies, per Miss A. Williamson), 1*l.* 1*s.*; Mrs. Sharples (Bridlington), in lieu of goods for stall, 10*s.*; Southend Association (proceeds of whist-drive, second contribution), 6*l.* 7*s.*; South-West London Chemists' Association (collecting-box, per J. Monoghan), 2*l.* 2*s.*; H. W. Stiles (Doncaster), contribution to stall, 2*l.*; Wallasey Pharmacists' Association (proceeds of smoking concert, per H. S. Peirson), 8*l.* 9*s.*; Western Pharmacists' Association (first contribution, per C. A. Jones), 5*l.*; Miss V. White (London), contribution to stall, 5*l.*; Yarmouth Association (per S. Woodcock), 1*l.*

Mr. ROWSELL thought the opportunity should not be allowed to pass without making public reference to the magnificent effort made by Miss Buchanan on behalf of the Fund. The enormous amount of time and work she had devoted towards ensuring the success of the appeal called for an expression of their appreciation. The move she had made was in an entirely new direction, and its

success was such that he hoped it would be followed in future years.

The PRESIDENT associated himself with Mr. Rowsell's expression of appreciation of Miss Buchanan's effort. They all felt that she had put her back into the work. It was gratifying to the Council to note the magnificent support and co-operation she had received from women pharmacists and the wives and lady relatives of chemists all over the country.

A vote of thanks to Miss Buchanan, and to all the ladies who were associated with and assisted her in the work in connection with the stall in aid of the Fund at the Chemists' Exhibition, was then carried.

WAR AUXILIARY BENEVOLENT FUND

The report of this Committee stated that two grants—one of 44*l.* 2*s.* to cover fees for passing examination, and another of 10*l.* towards relief of necessitous cases—were made. The number of applications for railway fares so far received was 208, amounting approximately to 500*l.* Two cases of students studying in London who had applied for their railway fares to their homes in the North of England were not considered.

The report was adopted.

ESTABLISHMENT COMMITTEE

The first report submitted by this recently appointed committee recommended that the following appointments be made: Professor H. G. Greenish, F.I.C., Professor of Pharmaceutics; Mr. C. E. Corfield, B.Sc., F.I.C., Lecturer in Chemistry; Mr. T. E. Wallis, B.Sc., F.I.C., Lecturer in Botany; Mr. G. R. Boyes, Mr. F. J. Dyer, Mr. C. J. Eastland, Mr. B. W. Melhuish, Miss C. E. Pearson, Miss A. M. Saunders, Mr. K. E. N. Williams, Miss E. Woodward, Demonstrators.

The report was adopted.

GREETINGS FROM MALTA

The PRESIDENT intimated receipt of a large photograph of a group of pharmacists in the island of Malta. It bore the following inscription: "Presented with cordial greeting to the President and members of the Pharmaceutical Society of Great Britain by the President and members of the Pharmaceutical Chamber of Malta on the occasion of the granting of self-government to Malta, as a mark of closer relationship in future."

Mr. ROWSELL asked if the Council might not reciprocate by sending to the Malta Pharmaceutical Chamber a group photograph of its members.

The PRESIDENT replied that he was prepared to accept a motion to that effect.

Mr. Rowsell did not accept the President's invitation.

This was all the public business.

North British Branch

A MEETING of the Executive of the North British Branch was held at 36 York Place, Edinburgh, on June 29, Mr. James Jack in the chair. There were present: Messrs. A. Currie, Dick, Fisher, Forbes, Glass, Guthrie, Jack, Kitchin, D. G. Mackenzie, T. Mackenzie, McLaren, McMillan, McNab, McVitae, Milne, and Murray.

ELECTION OF CHAIRMAN AND VICE-CHAIRMAN

Mr. George Shiach Kitchin, Glasgow, was unanimously elected chairman, and Mr. John Johnstone Forbes, Perth, vice-chairman for the ensuing year. The chairman welcomed the new members, namely: Messrs. A. A. Dick, D. G. Mackenzie, and J. R. Milne, and Mr. Mackenzie acknowledged the welcome for himself and colleagues. The various committees were also appointed.

RECOGNITION OF TRAINING INSTITUTIONS

The decision of the Council in regard to recognition of training institutions has been intimated to the parties. In connection with the Ayr Academy, Mr. Meldrum, who was in consultation with the education authorities, had ascertained that they might have sufficient students to justify the establishment of classes for which recognition would be applied. The scheme of study for botany at Perth Academy had been forwarded to Major Peck. A letter had been sent to the Royal Technical College, Glasgow, suggesting the alteration of the evening-class hour from 7 P.M. to 7.30 as being more convenient for pharmaceutical students. A syllabus of the evening classes was submitted. Several classes meet on the Tuesday evening at the same hour, and it was agreed to draw the attention of the superintendent of the pharmacy classes to this matter. It was also reported that an arrangement had been made with the University of Glasgow by which the Royal Technical College classes would qualify for the B.Sc. Pharm., established by the University of Glasgow some years ago. The question of a representation of pharmacists on the Committee of Management of the Pharmaceutical Department of the Royal Technical College was raised, and it was agreed to communicate with the Governors. It was further agreed that the chairman of the Executive and Mr. Arthur, the convener of the Education Committee, should be suggested as representatives.

EVENING MEETINGS AND SECRETARIES

The Executive remitted to the General Purposes Committee to arrange a series of winter scientific meetings as in former years. It was remitted to the General Purposes Committee to frame a list of divisional secretaries to be submitted to the Council for appointment for 1922.

LOCAL ORGANISATION IN SCOTLAND

The Executive considered the existing situation in regard to local organisation in Scotland and in England and Wales. After a discussion it was moved by Mr. Jack, seconded by Mr. Forbes, and unanimously agreed to appoint Messrs. Forbes, Guthrie, and Kitchin as a committee to confer with a committee representing the Executive of the Scottish Pharmaceutical Federation. It was further agreed that the joint committee might endeavour to formulate some joint scheme of co-operation under which all the interests bearing upon the craft of pharmacy could be most efficiently safeguarded and maintained and to report; also that the resident secretary and the secretary of the Federation should be associated with the joint committee, and that the chairman of the Executive should undertake to convene a joint meeting of the two committees on some convenient date after hearing what had been done by the Executive of the Scottish Pharmaceutical Federation.

MEDICAL AND ALLIED SERVICES

It was reported that the Consultative Council on Medical and Allied Services of the Scottish Board of Health had dealt with draft regulations for a new election of panel and pharmaceutical committees under the Insurance Acts. The new regulations proposed that committees might remunerate the secretary, provided he was not a member of the committee. This was a complete departure from the former arrangement, under which a member of the committee was appointed secretary and was allocated a certain remuneration from the administrative fund of the committee. The attention of the Board of Health had been drawn to this point, indicating the desirability of the secretary to a pharmaceutical committee being a panel chemist closely in touch with the business. Mr. Dick suggested that when Insurance committees were being reappointed was a favourable opportunity for raising the question of direct representation of pharmacists on Insurance committees. It was agreed to communicate with the Scottish Board of Health again.

SALE OF METHYLATED SPIRIT

There was submitted the resolutions passed at the last meeting of the Scottish Convention of Burghs which foreshadowed the imposition of restrictions of a very harassing and impracticable kind on the retail selling of methylated spirit for industrial and technical and administrative purposes. It was suggested that pharmacists might themselves consider and agree upon certain provisions which would effectively check the prevailing and growing evil of methylated-spirit drinking, and would at the same time not unduly harass the vendors and pur-

chasers who required it for legitimate purposes. It was remitted to the General Purposes Committee to consider the matter on these lines.

Sale of Medicated Wines

With regard to the sale of medicated wines in areas in which a no-licence resolution has been adopted in Scotland, there was submitted the reply from the Secretary for Scotland, stating that it was quite clear that in such an area the no-licence resolution meant the complete prohibition of the sale of such medicated wines by retail pharmacists.

Proprietary Medicines Bill

Attention was directed to the memorandum on the Proprietary Medicines Bill prepared by the Executive on its first appearance and transmitted to the Council. There was also submitted the copy of the Bill as amended in committee. It was explained that, although the Bill had meantime been suspended, it would come up at a later date. The provisions of the Bill were severely criticised, being needlessly complicated and harassing. Strong exception was also taken to the apparent policy of the Bill as a further development of the Venereal Disease Act and the Dangerous Drugs Act legislation in prohibiting the vending of medicinal remedies by registered chemists and druggists, and also infringing the right of the public to purchase medicinal remedies without being required to call in a medical practitioner. It was also pointed out that the Bill, as framed, gave power to the Minister of Health for the time being to extend the restrictions of the Bill to an almost unlimited extent. It also foreshadowed the issuing of regulations, and recent experience in that connection suggested the wisdom of extreme vigilance in regard to all Parliamentary procedure relating to the Bill. It seemed possible also that the Bill, when it did come forward again, might be associated with more comprehensive proposals relating to the whole powers and functions of medical practitioners in the prescribing of medicines and pharmacists in the dispensing of medicines. It was agreed to remit the matter to the Parliamentary Committee.

Dangerous Drugs Act Regulations

There was submitted the draft of a letter proposed at the last meeting of the Executive for transmission to the Council. The draft was approved and ordered to be forwarded to the Council.

Major Syllabus and Qualifying Examination Regulations

Several communications were submitted from teachers of pharmaceutical students in Scotland and members of the Board of Examiners with regard to the proposed extended Major examination syllabus and also with regard to the Qualifying examination regulations and syllabus. It was agreed to remit the suggestions to the Education Committee for consideration and with power to forward to the Council a memorandum of suggestions.

Emergency Medicines

It was reported that the Society had been approached by a member of the Edinburgh Town Council and also by several members of the Society with regard to difficulties connected with the facilities for obtaining medicines during the night and when the chemists' shops were closed. The Public Health Committee had requested the chemists and the medical practitioners to confer together, and, failing an arrangement, it had been proposed that the Town Council should establish a municipal dispensary. In Aberdeen there is no trouble regarding night service, as a large number of the chemists resided within easy reach of their place of business. In Dundee chemists had arranged that medical practitioners should have emergency drugs which they themselves could give to tide the patient over till the following day. In Glasgow the matter had been arranged by furnishing information as to chemists with night bells. Since the matter had been brought up several chemists in Edinburgh had resumed night service, so there will probably be less trouble in future.

Dangerous Drugs Legislation

Our readers are well aware of the international character of the legislation dealing with the regulation of the manufacture and sale of cocaine, ecgonine, morphine, diamorphine, also opium and its preparations. This is owing to the provisions of the Hague Convention and the Treaty of Versailles. The following is recent information on the subject from the countries mentioned :

Belgium

The Belgian Parliament has passed a new law, the first article of which empowers the Government to undertake the control, and to issue regulations, concerning the importation, exportation, manufacture, circulation, keeping, sale, and supply of substances possessing a toxic, soporific, stupefying, disinfectant, or antiseptic action. The remaining eight articles of this law deal with the penalties to be imposed in cases of transgressions against its provisions, or rather of the regulations to be issued by the Government at a later date, by virtue of the powers granted by this law. These penalties range from a term of imprisonment of eight days, and/or a fine of 100 fr., to a maximum penalty of two years' imprisonment and/or a fine of 10,000 fr. If the transgressor is engaged in one of the "branches of the art of healing," he may be prohibited from continuing his profession, either temporarily or definitely. The authorities are also empowered to appoint agents to visit all establishments in which the substances covered by this law are kept. It remains to be seen what use the Belgian Government will make of the new powers with which it has been vested when the regulations giving effect to its provisions are published, together with the list of substances coming within its scope.

France

The French law on poisons and narcotics of 1916, which has been dealt with in the *C. & D.*, is an extremely stringent measure, but it makes an exception in certain cases where prescriptions for these drugs are concerned. Article 38 of the law prohibits the repetition of any prescription calling for opium, extracts of opium, morphine or its salts, diacetylmorphine or its salts, the alkaloids of opium, their salts and derivatives (with the exception of codeine), cocaine, its salts and derivatives, hashish and its preparations, if these are prescribed in substance alone without any admixtures, or if in a form destined for hypodermic exhibition. On the other hand, it is permitted to repeat prescriptions for medicines to be taken internally, provided they do not contain more than 0.12 gram of extract of opium, or 0.03 gram of the hydrochlorides of morphine, diacetylmorphine, or cocaine. Further, whereas the British pharmacist will be required to enter daily, in two separate, or possibly more, registers, each single prescription calling for any of the narcotics designated in the Act, with all particulars, the French pharmacist is relieved of a great portion of this tedious and time-taking clerical work, inasmuch as Article 32 of the French law distinctly specifies that pharmacists may enter in the special register to be kept for each class of narcotic the total amount dispensed on prescriptions each month, thus requiring monthly only one single entry of the total amount delivered on prescriptions. In this connection we may mention that he is also not required to keep a special prescription register solely for entering this kind of prescription, his ordinary prescription register being deemed quite sufficient.

Germany

In accordance with the obligation undertaken in signing the Peace Treaty, the German Government has passed through the Reichstag a law giving effect to the provisions of the Hague Opium Convention of 1912. By the terms of this law the control over the importation, exportation, manufacture, and sale of raw opium, medicinal opium, morphine, cocaine, and diacetylmorphine (heroin), as well as the salts of the latter, and of all preparations containing more than 0.2 per cent. of morphine or 0.1 per cent. of cocaine or of diacetyl-

morphine, will be vested in the Imperial Board of Health. The Board will be empowered to demand the production of any documents referring to transactions in the above drugs and to ask any questions it may deem fit regarding any dealings in the drugs of persons engaged in handling them in any capacity. Permission to import, export, or manufacture or to trade in any of these narcotics must previously be obtained from the Government of the State in which the applicant resides, and, if necessary, the local Chamber of Commerce may first be consulted; the State Government grants the necessary licence with the consent of the Imperial Minister of the Interior, this provision provides for the co-ordination of the steps taken by the single Governments of which the German State is composed. The permission may be granted for a definite period or in respect of a certain fixed amount only of any of these drugs. Pharmacists do not have to obtain this permission provided they require them only as remedies. On the other hand, the delivery of the drugs in question to persons holding a licence, and also to pharmacists, is made contingent upon a special supply demand, for which application must be made to the Opium Board, a body under the control of the Imperial Board of Health. In making this application the amount and form of the drugs of which a supply is required, or of their preparations, must be given in detail, together with the amount in stock at the time of making application for a fresh supply, and also the name of the person (or firm) from whom these drugs or their preparations are to be ordered and supplied. Books must be kept in which all transactions in these drugs will have to be entered daily, showing the stock in hand, the amount used for manufacturing purposes by the holder, all purchases and sales, giving in each case the name and address of the purchaser or of the person from whom they were obtained. One article states: "With the consent of the Imperial Council, regulations may be issued with regard to the application of the first portion of this law to pharmacists." The importation and exportation of these narcotics will be permitted only at certain places, to be specified by the Imperial Minister of the Interior, who will also establish the conditions under which they may be imported and exported.

The regulations for the application of the provisions of this law have now been issued, giving effect to the law recently passed. Permission to import, export, manufacture or trade in the substances named in the law will only be granted to persons or firms who manufacture mainly chemical products or who deal in them wholesale, not delivering the same directly to the consumers. In granting permission, not only the question of the applicant's reliability, but also that of the necessity will be taken into consideration. Special permission may in exceptional cases be granted to persons requiring these substances exclusively for scientific purposes. In the permission the exact location of the establishment, or part thereof, to which it extends must be stated, and the permission may be granted for a specified period only, or for a stated amount of these substances. Pharmacists are not required to apply for this permission, but, on the other hand, are not permitted to deliver these substances except on the prescription of a doctor, dental surgeon, or veterinary surgeon. With the exception of pharmacists, persons or firms wishing to acquire any of these substances must apply to the Opium Bureau for a licence. This document, duly filled up, will be sent by the Opium Bureau direct to the supplier mentioned therein, and will be retained by the latter as his authority for having supplied the amounts set forth in this Order. Persons or firms wishing to import or export any of the substances in question must apply in the first instance to the Imperial Commissary for Imports and Exports (Foreign Trade Branch, "Chemicals"), which will pass the application, together with its decision, to the Imperial Board of Health. The importation of these substances will be controlled by the Customs authorities, who will be required to send in to the Imperial Board of Health a statement to this effect, giving the designations of the substances and the address of the recipient, as stated on the import documents. When any of these substances are exported the exporter must attach to the packet a special export declaration, of which the form is prescribed. The frontier Custom House must certify on this declaration the fact that exportation has actually taken place, and then forward the document to the Imperial Board of Health. All persons or firms required to obtain permission to deal in the narcotics mentioned in the law are obliged to keep a register in which all transactions relating to the same will have to be entered. Raw opium may only be imported through the Custom Houses at Hamburg, Bremen, Lübeck, Geestemünde, Emmerich-Elten, Aix-la-Chapelle, Basle, Passau, Bodenbach-Tetschen. All parcels intended for export containing over 5 kilograms of raw opium must bear the letters "R. O." in red; the single letters being at least 8 centimetres high. It is interesting to note that the foregoing German regulations do not affect the pharmacist in any way, and do not impose upon him any new duties. He is not required to apply for a licence to deal in these substances, nor when ordering supplies from his wholesaler, and he is also not obliged to keep any special registers.

Uruguay

The ratification in 1919 by Uruguay of the Hague Opium Convention has necessitated the introduction of fresh legislation in that country, which has now been passed. The law dealing with narcotics consists of twenty-two articles, of which we present a summary as follows: All importers, chemical manufacturers, commission agents, and other persons handling in the course of their trade, or requiring for manufacturing purposes, opium, coca, or their derivatives, must obtain a licence from the National Board of Health. As a guarantee a deposit is required as security, the amount being fixed by the board in each case. Pharmacists who are owners of pharmacies are exempted from this requirement. All other persons are forbidden to have in their possession in any form whatsoever any of these drugs. However, medical practitioners, veterinary surgeons, and dental surgeons may keep for purely professional purposes any of these substances in amounts to be prescribed by the National Board of Health. All persons dealing with these narcotics are obliged to keep a special register, which has to be signed and sealed by the inspector of pharmacies. Each purchase and sale of any narcotic coming within the scope of this law must be entered at the time of the transaction, the following particulars being prescribed: Name and amount of the substance, and the name and address of the purchaser or of the supplier. Each transaction must be provided with a serial number. Veterinary and dental surgeons permitted to keep any of these narcotics are also obliged to keep a register, as prescribed in the foregoing. Pharmacists are permitted to enter once a week the total amounts of each substance dispensed on prescriptions; however, in the prescription book the name and address of each patient must be entered against every prescription containing a narcotic of this category. Importers, manufacturers, and pharmacists who utilise opium or coca in order to extract therefrom the alkaloids, or for the manufacture of other preparations, must enter in the register the quantity used, and the amount of alkaloids, or of the product, obtained as a result of the operation undertaken. With the exception of prescriptions, all orders for any of these narcotics must be made in writing, signed, and dated by the purchaser, and stating the name and amount of the substance ordered, as well as the profession and address of the person placing the order. Prescriptions calling for any of these substances must bear the name and address of the medical practitioner, veterinary or dental surgeon. They must then be signed and stamped by the pharmacist, and also retained by him. However, he is permitted to supply a copy of the prescription, which must be signed by him. In no case may a prescription of this kind be repeated unless duly signed by the prescriber. In no case may any of these narcotics be prescribed in an amount exceeding the maximum quantity or covering a longer period than is to be established by a special regulation still to be issued by the National Board of Health.

Births

HEATON.—At Streatham Manor, on July 6, the wife of A. R. Heaton, M.C., Ph.C. (of THE CHEMIST AND DRUGGIST staff), of a son.

WOOD.—At 3 Preservine Cottages, Clapham, Beds, on July 4, the wife of A. M. Wood, chemist and druggist, Kilburn, London, N.W. 6, of a son.

Marriages

GOSLING—WATT.—At St. Mary's Church, Balham, London, S.W., by the Rev. D. Bryant, Charles William Gosling, Ph.C., one of the principals of the London College of Chemistry and Pharmacy, Clapham, S.W., to Winifred Isobel Marshall Watt, chemist and druggist, also of the teaching staff of the London College.

MACLENNAN—FOWLER.—At the National Hotel, Dingwall, on June 24, John Maclennan, Muir-of-Ord, to Margaret Fowler, chemist and druggist, daughter of Mr. Fowler, Newton-of-Ferintosh, Conon Bridge.

MITCHELL—BAXTER.—On June 22 (by special licence), at the residence of the bride's mother, by the Rev. R. B. Wylie, LL.D., Henry Blayney Owen Mitchell, M.C., eldest son of Mr. Henry Mitchell, "Chesterfield," Belfast, to S. Marguerite (Rita), the youngest daughter of the late Sir William J. Baxter, J.P., D.L., ex-President Pharmaceutical Society of Ireland.

Deaths

BOREHAM.—At Isleworth Infirmary, on July 6, Mr. W. H. Boreham, chemist and druggist, Hanwell. Mr. Boreham died from injuries received on the occasion of the fire at his premises, the Kelvin Drug Stores (*C. & D.*, July 2, p. 41).

CHRISTEY.—At 43A Wickham Road, Brockley, on July 4, Mr. George Henry Christey, second son of the late Mr. Charles Christey, aged fifty-two years. Mr. Christey was well known in Mincing Lane produce circles as a representative of Hale & Son's staff.

KEENE.—At 5 Via E. Repetti, Florence, on July 3, Mr. Bernard Keene, Ph.C. Mr. Keene passed the Qualifying examination in 1887 and the Major in the following year.

NASH.—At 59 Broderick Road, Wandsworth, London, S.W., on June 30, Mr. Thomas Nash, drug and produce merchant, Philpot Lane, E.C., aged about seventy. Mr. Nash, who was a native of Bristol, had been identified with the London drug-trade for over fifty years, and at one period of his career occupied a prominent position as an importer of Chinese and Japanese produce.

NUNS.—On July 5, as the result of a motor-cycle accident, Mr. Harry Nuns, chemist and druggist, aged thirty. Mr. Nuns was the manager of the Wakefield branch of Boots (Northern), Ltd.

WILLIAMSON.—At Bournemouth, on July 3, Mr. Joseph Burrell Williamson, chemist and druggist, Camp End, North Shields (late of Williamson & Hogg), aged seventy.

CALCUTTA CHEMISTS' AND DRUGGISTS' ASSOCIATION.—It will be remembered that under this heading some weeks ago we gave news regarding the formation of a Chemists' and Druggists' Association in Calcutta and the stand taken by the Association with regard to payment of drafts. The Association has now made an arrangement with the Mercantile Bank of India, Limited, whereby the Bank offers to accept payment of overdue drafts at current rate of exchange, holding the money in Calcutta for six months from the date of payment and bearing interest at 5 per cent. per annum. The drawees have the option of fixing rate of exchange any day within the period of six months and making remittance at this rate. If payment is not made during the time fixed, the Bank adjust finally at the rate of exchange ruling at the end of the six months.

Personalities

DR. A. L. NAIR, of N. Powell & Co., chemists, Bombay, has arrived in London. His address is 38 Manor House, Marylebone Road, N.W. 1.

MISS JOSEPHINE SEWELL, daughter of Mr. W. J. Sewell, chemist and druggist, Goole, has recently obtained the M.A. degree at Leeds University.

MR. J. S. SHEARMAN, chemist and druggist, formerly in business at Great Yarmouth, has been returned unopposed to the Haverhill urban district council.

MR. ROBERT B. ANDERSON, second son of Mr. R. Anderson, chemist and druggist, Sunderland, has been awarded a scholarship tenable for six years at Bede College.

MRS. EDITH C. DOBSON, wife of Mr. James Dobson, chemist and druggist, Hounslow, was one of the successful candidates in the recent Dioptric examination of the British Optical Association.

THE students and staff of the Bath and West of England College of Pharmacy have presented Mr. Cooper, lecturer in pharmacy and physics, with a walking-stick and easy-chair, in recognition of his efforts on their behalf and in view of his approaching marriage.

MR. C. J. BELLAMY, Ph.C. (Druce & Co.), 118 High Street, Oxford, has been honoured with a warrant of appointment to H.R.H. the Prince of Wales. Mr. Bellamy took over the business from Dr. G. Claridge Druce in 1906, and was favoured with frequent visits from the Prince during the latter's undergraduate days.

MR. C. W. GOSLING, Ph.C., one of the principals of the London College of Pharmacy, London, S.W., and Miss W. I. M. Watt, a member of the college teaching staff, were, on June 29, presented with a drawing-room clock and a set of carvers and knife-rests by the staff and students in view of their marriage.

MR. O. PORTMAN RUBECK (H. Rubeck & Co., 59 Mark Lane, London, E.C.) is having considerable success in breeding and raising Guernsey pedigree cattle. At the Royal Agricultural Society of England Show at Derby recently, he exhibited four animals in different classes, obtaining a 1st, 2nd, 3rd, and reserve prize respectively. Mr. Rubeck was awarded several prizes two years ago at the London Dairy Show, Islington, where he first exhibited, and last year was a prize-winner at the leading shows in England.

THE newly established degree of Doctor of Philosophy was conferred on Mr. K. Samaan, M.Sc., Ph.C., at the Manchester University on July 2. Dr. Samaan has been engaged on important research in the Materia Medica Department of the Manchester University, and gave two important contributions to the British Pharmaceutical Conference, one in 1919 dealing with strophanthus, and the second in 1921 on digitalis. Dr. Samaan is shortly leaving for Egypt to take up his academic duties on the Medical School of Cairo. We congratulate him on his successful career and wish him continued success.

Photo.] [*Cleworth*

DR. K. SAMAAN, M.Sc., Ph.C.

AUSTRALIAN TARIFF.—The House of Representatives has increased the duty on sheep-dips by 5 per cent. The revised duties will be as follows: British preferential, 25 per cent.; intermediate, 25 per cent.; general, 35 per cent. The House also agreed to the imposition of the following duties on sulphur: British preferential, 15*s.*; intermediate, 20*s.*; general, 50*s.*

Trade Notes

CHICAGO HAIR-DYE is made by Single, Dalby & Co., 42 Oldham Road, Manchester.

"GNATO" is the name of a protective against bites from gnats, mosquitoes, midges, and similar insects, prepared by the "Gnato" Co., Market Cross Chambers, Huddersfield.

"YOBAR" brand specialities formerly made by Young & Barraclough, Ltd., have been acquired, and can be supplied, by Wm. Fox & Sons, wholesale botanic druggists, Castle Street, Sheffield.

IODEX.—Particulars of an attractive offer to chemists regarding Iodex and Iodex skin soap will be sent on request by Menley & James, Ltd., Menley House, Hatton Garden, London, E.C. 1.

SOL-VO SANITARY PAPER.—Ford, Shapland & Co., Ltd., printers, Great Turnstile, High Holborn, London, W.C. 1, give in their advertisement the new carriage-paid terms for Sol-vo sanitary rolls and packets.

AYRTON, SAUNDERS & CO., LTD., Liverpool, are renewing the offer of lantern slides bearing each retail chemist's name and address. A series of new and humorous illustrations of hair-shampoo preparations sent out to travellers will be available for the trade shortly.

EUCALYPTUS OIL.—Wm. Haughton & Co., 85 Gracechurch Street, London, E.C., have been appointed sole European agents for the Hardinge-Smith Co-operation, Ltd., specialists in eucalyptus oils and preparations, Victoria, Australia, makers of the "Mallee" brand eucalyptus oil and the only distillers who specialise in the one leaf (*E. polybractea*).

LONDON FAIR AND MARKET.—At this exhibition, which is being held at the Royal Agricultural Hall, London, N., Dubarry et Cie., perfumers, 81 Brompton Road, London, S.W. 3, are exhibiting, and will be glad to send, a ticket of admission to any chemist writing for one. The Fair remains open until July 15 (it is, however, closed on July 9). Dubarry et Cie. include in their stall their latest product, bath crystals, "Après la Pluie," which consists of a mixture of crystals in the primary colours of the spectrum and with an iridescence that makes the article very attractive.

KELLY'S WORLD DIRECTORY.—The thirty-fifth annual edition of "Kelly's Directory of Merchants, Manufacturers, and Shippers of the World" (64*s*. net) has just been issued by Kelly's Directories, Ltd., 186 Strand, London, W.C. 2. When it is stated that the thirty-fifth edition involved over 600,000 alterations, some idea of the magnitude of the work can be gathered, and the care taken in its compilation. It contains (in two volumes) a concise statistical account of each country, its ports and principal towns, with classified lists of consuls, bankers, merchants, brokers, shipping agents, buyers of British goods and the manufacturers of goods exported; also the names and addresses of the manufacturers in the United Kingdom and a carefully arranged list of exporters and importers. In rebuilding our export trade a work of this character is invaluable, as it provides information respecting traders throughout the world as they are to-day.

THERMOMETER LIST. — Powell's Thermometer Co., 55 Hatton Garden, London, E.C. 1, have sent us a copy of their new price-list of clinical and industrial thermometers of the company's own manufacture. The prices have been reduced. It is a complete list of thermometers and hydrometers, and also contains useful explanations of the functions and special points of each instrument. It is perhaps not always realised that there is a large business to be done in these goods, but apart from the use of thermometers in the household they are required in many industries, such as those of the baker, jam-maker, photographer, and chemical manufacturer. Hydrometers have also many applications : saccharometers and spirit hydrometers are needed by brewers and wine merchants, Twaddle's hydrometers for laundries, accumulator hydrometers for motor-garages. A show of the various kinds could be made an attractive feature of a pharmacy, and would tend to give a character to the business.

SIMMS' SHAVING-BRUSHES.—W. H. Calnan & Co., Ltd., 30 to 32 Ludgate Hill, London, E.C. 4, have taken up the agency for T. S. Simms & Co., Ltd., St. John, N.B., who are specialists in the manufacture of shaving-brushes. There is a range of 200 brushes, with price, style, and bristle to suit the needs of every customer. They have one point in common—the bristles are fixed in rubber and the handles are vulcanite, which, unlike bone, never splits.

Each brush is numbered, cartoned, and carries a guarantee. Handsome show-cards and window-bills are supplied, and on orders of 20*l*. a display cabinet is given free. A minimum profit of 33⅓ per cent. is to be guaranteed under the Proprietary Articles Trade Association. Messrs. Calnan have already had satisfactory indications of the demand which is likely to follow their energetic selling campaign. Each individual brush is a nicely balanced, neat, and serviceable-looking article.

Business Changes

MR. G. M. GRIFFITHS, chemist and druggist, has acquired the business of Mr. R. B. Sandiland, Ph.C., 2 High Street, Leominster.

THE new offices and showrooms of Dols, Ltd., manufacturers of Volatalise Flannel, Huddersfield, were opened on July 2. The company is stated to be the only one working full time and overtime in Huddersfield.

MR. JAMES IRVINE, chemist and druggist, Market Place, Kendal, has sold his business to Mr. F. W. Boon, and will give his whole attention to the sale of "Irvine's Ointment," the proprietorship of which he still retains.

THE transfer to Taylor's Drug Co., Ltd., of the retail businesses at 4 Exchange Street and 90 Mosley Street, Manchester, of Charles Midgley, Ltd., took effect as regards the Exchange Street business on July 4, the Mosley Street business being transferred on July 11. The transfer completes the disposal of the retail interests of the company, in accordance with the policy decided upon in 1918. The registered office of the company is now transferred to 325 City Road, Manchester, at which address the company continues its manufacturing activities, in conjunction with the associated company, George Holliday & Co., Ltd.

Information Department

INFORMATION WANTED

D/47. White Rock for hardening horses' hoofs.

M/57. "Varivane" bandages.

S/57. Parton's pills

INFORMATION SUPPLIED

Allcock's plasters, K/276
Binns' combs, S/256
"Bolio," E/57
Brandram's flowers of sulphur, E/57
Densmore tea, S/67
De Sanctis' pain paint, L/57
"Hernicura" truss, C/27
"Iodotan," W/47
Ivory tooth combs, J/27

Observations and Reflections

By Xrayser II.

The Question of the Books

required for the proper registration of transactions in "dangerous drugs" is only one illustration of the muddlement that pervades the whole Act, but it is the one which, if not rightly understood, is most likely to land the innocent pharmacist in trouble. It seems to me that either your interpretation of the clause dealing with this matter or the use of such registers as Messrs. Townsend & Sons supply would meet the case, but it is not right that any question of the kind should be possible. Clearly it *is* possible, and, having arisen, it is as clearly the duty of our leaders to get an authoritative solution. To which body, the Society as represented by the Council, or the Executive of the Retail Pharmacists' Union, this duty belongs, it is not for me to say, but I hope we shall not fall to the ground between the two stools. The ambiguity of the term "the register" to which you call attention is ground enough to justify a request for an official explanation, and fortunately there is time enough to obtain one before the Regulations come into force

Mr. James Jack,

as chairman of the annual meeting of the North British Branch, dealt (rather feebly, I am afraid) with this subject of the "divided house" in pharmacy. Surely he misunderstands the situation when he says we have two masters. Probably that is pretty much how those in authority, whether in the Council or the Executive Committee of the Retail Pharmacists' Union, regard it, but it is not in accordance with the intention of those who elect either body. We propose to use them as servants, not to accept them as masters, and the first thing we demand of them is that they should be in perfect agreement with one another. It is difficult, no doubt, as Mr. Jack said, to draw a dividing line between true pharmacy and trading pharmacy (the preceding note affords an instance of the difficulty), but it has got to be done, and it lies primarily with the Council to do it, as, indeed, the Council itself has admitted. It should be possible to define the two with sufficient accuracy to apply to most cases, and if any extraordinary case arose to come to an agreement with regard to it. The real difficulty, I am afraid, is a personal one, by which I do not intend blame to any particular person. Such, however, is the frailty of human nature that misunderstandings, rivalries, jealousies, are almost certain to arise between bodies so placed in relation to one another as the Society and the R.P.U. How to prevent them is the most pressing problem of pharmaceutical politics.

When the Census was taken

in 1901 a census of British pharmacy was proposed by an anonymous correspondent of the *C. & D.*, the effect of which would have been to show how imperfectly the Pharmacy Act was observed, both in the spirit and in the letter. The suggestion was that a return should be made of the number of "open shops" at which poisons were sold, the number owned by companies and by private persons respectively, the number conducted under the name of the actual proprietor, the number owned by each company or individual pharmacist, the number of unqualified assistants employed in pharmacy, and of the apprentices actually under the direction of a qualified pharmacist, with other particulars equally pertinent. The proposer was evidently of the opinion that his suggestions could not be carried out without discredit to the Society, whom he accused of official ignorance with respect to the points raised if of nothing worse, and my precursor in this column, commenting upon his remarks, expressed the opinion that the result of such a census would probably reduce to zero the desire for any further Pharmacy Act such as was then being contemplated. One wonders what would be the result of such an inquiry now that the Poisons and Pharmacy Act, 1908, which regulated company pharmacy, has been in force for some years.

The London Insurance Committee

censured the chemist who tried to get over the "container" difficulty by simply filling the bottle brought to him by the patient, but it did not, apparently, direct him what to do when the difficulty occurs again. Is he to provide a bottle whether he is paid for it or not? Or may he refuse to dispense the prescription unless a suitable bottle is brought for it? I am not saying that in the case reported the right course, or even a defensible course, was taken, but the difficulty was a real one, and the Committee ought to tell in what way to meet it.

The Suggestion

of the Exeter Pharmaceutical Sub-Committee that doctors should, so far as possible, confine themselves to 8-oz. bottles when prescribing for panel patients is in accordance with custom, 8-oz. being undoubtedly the size most in use; but it is somewhat curious that it should be so. A 10-oz. mixture is much more convenient in reckoning doses. I suppose that the 8-oz. is a survival from the time when our pint was 16 oz., and Oss. is still occasionally prescribed when it is reasonable to think that 8 oz. is meant. These are two good reasons why 10 oz. should be the standard size for mixtures.

Thomas Sydenham,

whose name occurs in two of the most interesting articles in your annual special number, though one of the most famous and successful of English physicians, was by no means a *persona grata* with the faculty of his day, many of whom indeed regarded him as a quack in spite of his degree of M.D. (conferred at Cambridge) and his Fellowship at All Souls, Oxford—not to mention the medical works which earned for him the title of "the supreme English Hippocratist." Many of his prescriptions are by no means out of place in such a book as Wesley's "Primitive Physic," and one wonders whether the similar work of his friend Robert Boyle does not owe something to him. He is said to have prescribed a roast chicken and a pint of Madeira for a patient who had been reduced to a state of extreme debility by a long course of lowering medicine, and to have sent a hypochondriac subject to Edinburgh to consult a non-existent physician, in the hope that the journey would do him good. The treatment in both cases was probably excellent, but in neither would it increase his popularity with the profession.

Dr. Dee,

who has been described as alchemist to Queen Elizabeth, and who, if I remember rightly, figures largely in one of Ainsworth's romances, deserves, perhaps, if for his notoriety alone, a larger notice than was given him in the article on alchemy in your special number. A learned and an accomplished man, he was yet an adept in crystallomancy, and was more than once accused of (and once imprisoned for) magical practices. As regards alchemy he was probably as much a dupe as an impostor, being the victim of his assistant, Edward Kelly, *alias* Talbot, a convicted forger, who, when in hiding from justice in Wales, obtained possession of an alchemical MS. supposed to have been discovered at Glastonbury, and attributed by Kelly to St. Dunstan, the founder of the Abbey there. Being in very low water at home Dee and Kelly went abroad, armed with this MS., and settling down in Prague practised transmutation so successfully as to become rich. Kelly was invited to the Court of the Emperor Maximilian, and was ultimately knighted and made Marshal of Bohemia. His success intoxicated him, and his insolence and presumption stirred up powerful enemies by whom he was accused of unlawful arts. Failing to effect transmutation under supervision he was condemned and imprisoned; engaging to succeed if allowed the help of Dee, he was released; but failing again was again thrown into prison, and some time afterwards was killed in an attempt to escape. Dee, who does not seem to have been molested, returned to England, was received with favour by Queen Elizabeth, licensed to practise alchemy, and made Chancellor of St. Paul's and Warden of Manchester College. He effected, however, no more transmutations, and died in poverty at the age of eighty-one.

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Sir Arthur Pearson thanks the Chemists

Sir Arthur Pearson thanks the great number of Chemists who so kindly devoted the contents of their Weighing Machines to St. Dunstan's last summer, and hopes they will render the same assistance during the present holiday season.

Fresh offers of similar co-operation from other Chemists will be greatly appreciated.

Boxes, Weight-Cards and Posters will be forwarded on receipt of a postcard addressed to: The Treasurer, Headquarters of St. Dunstan's Work, Inner Circle, Regent's Park, London, N.W. 1.

(*Blinded Soldiers' and Sailors' Care Committee.*) (*Registered under the Blind Persons Act, 1920.*)

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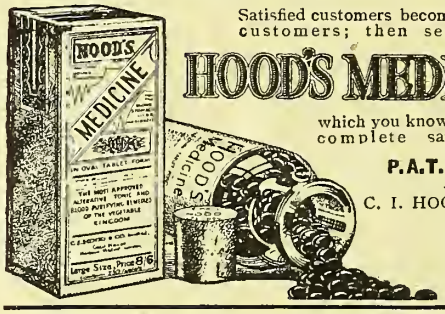

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Editorial Articles

Australian Essential Oils

According to a recent article in "The Chemist and Druggist of Australasia," Captain G. I. Adcock is installing a large plant in New South Wales for the treatment of orange and lemon windfalls and culls for their oils and acids, as well as for lavender, geranium, peppermint and menthol. Captain Adcock has had the benefit of a considerable experience of the perfumery industry in France, at Grasse, and also in Italy, which will no doubt be of great service to him in his venture. Initial experiments have been satisfactory, and there are several reasons given in his article for embarking on what seems at first a hazardous enterprise. Wages in most of the essential-oil producing countries have been trebled, while in Australia labour does not now, relatively, cost so much. Another advantage is that in Australia, ordinary farm methods can be applied in the cultivation of certain plants, and in France this is inadmissible owing to the terrace system and small holdings. The third advantage—and it is an exceptional one—which Australia possesses in regard to the essential-oil industry, to which Captain Adcock does not refer, however, is the encouragement given to the local distillation of essential oils by the Excise regulation which permits the use of duty-free Australian spirit in the preparation of perfumery, provided it is converted into the primary perfume by adding other Australian products to such an extent as will effectively denaturise the spirit. At the outset, he points out, however, that general conditions are vastly different in the two countries, and probably in these he includes climatic conditions, for it is thoroughly realised how important a factor climate is in the character of the ultimate oil. The effect of climate is at once apparent, for instance, in English lavender and peppermint oil. Attempts have been made to obtain "English" oil from plants originating from this country and grown abroad, but with partial success only. The same may be said of French neroli oil, which, despite the claims of the Italian product, is in a rank of its own, and experiments in California with orange flowers were also a failure. Some thirty-five years ago the Victorian Government established a perfume farm at Dunolly, which was at first remarkably successful, the reports on quality, yields, and returns of oil being most satisfactory. One of the principal reports was criticised in these columns in 1896 (*C. & D.*, vol. xlix., p. 257) at considerable length, and it is evident that Captain Adcock has no intention of repeating the errors of that period. Failure was due, however, not so much to mistaken policy, as to Government apathy, for, to quote the

article, ". . . the usual thing happened. The Government changed, and the new Minister believed in 'wheat and wool,' regarding all 'freak industries' with disfavour. The farm was closed, and the machinery still lies rotting in a Government yard in Melbourne." Some of the oils examined at the period included anise (the source of which, however, was doubtful), absinthe, eucalyptus citriodora, jonquil, millefleur and tuberose, geranium, lavender, rose, peppermint, pennyroyal, rosemary, sage, tansy and thyme. The conclusions arrived at were that about half of the oils submitted were potentially valuable export articles, and in only one or two cases was an adverse opinion given. Captain Adcock's policy, therefore, appears to be a sound one, for, as already stated, he intends at the commencement to concentrate on the plants which can be cultivated by ordinary farm methods. In the course of his article he points out that, so far, every previous attempt has closely followed French methods. The *enfleurage à froid* process has been largely used, a process now only used for certain flowers and demanding very cheap labour. It is hopeless trying to treat roses, orange flowers, jasmine, or any flowers requiring individual treatment. Another reason why the industry has not been established in Australia is lack of information regarding the detailed treatment of the products. For generations the industry has been largely confined to a portion of France, and details have been handed down from father to son. In no profession are trade secrets more jealously guarded. There is no doubt, however, that in almost every country a flora exists that would provide essential oils which are peculiarly its own. Eucalyptus oil is at once associated with Australia, and Captain Adcock gives little indication of the possibilities in this direction. For example, as we mentioned some time ago, the production of thymol from piperitone is receiving serious attention, and geraniol and citronellol have been produced in encouraging quantity. The author says:

Besides foreign oils, Australia produces an extraordinary number of native oils which offer a rich field for commercial investigation. A certain amount has been done in this direction, but the fringe has only been touched. Australia owes a debt of gratitude to men like Baker and Smith. The proposal to collect fallen orange blossoms with a view to distilling oil of neroli is hardly practicable commercially, as the blossoms would consist chiefly of those of the sweet orange, whereas the Seville orange gives the best oil. Further, the majority of blossoms would have fallen either through defect or because of having reached maturity.

Captain Adcock has undertaken a formidable task in endeavouring to create a new Australian essential-oil industry, and, while there is no reason to doubt his ability to supply Australia with many of the essential oils that are consumed there, a lengthy period may elapse before the export trade will be of sufficient volume to meet with serious consideration from the usual sources. With the high prices ruling for essential oils, however, it is probably only a question of time before competition appears from some quarter, and if it comes from one of the States which comprise the British Commonwealth it is all to the good, and Captain Adcock deserves the consideration and support of his fellow-citizens. For it seems to be forgotten that essential oils constitute the raw material for several industries. High prices, therefore, mean a decreased demand on the part of the ultimate consumer, which is the public, and it is self-evident that high prices, with a small consumption, in the long run benefit no one.

New Chemical Books

Referring recently to the increased cost of the production of scientific books, Mr. Geoffrey S. Williams, the President of the Publishers' Association of Great Britain, stated in "The Times" that from calculations he had recently consulted he found that the relative cost of printing is now approximately two and three-quarter times what it was in 1914; paper (of an inferior quality) costs double what it did in 1914, and binding (also of an inferior quality) costs rather more than three times the 1914 figure. The average total cost of a large edition of a small book works out, Mr. Williams finds, at about 180 per cent. above the 1914 figure. As a rule, only small editions of scientific books are published, because not only is the demand limited, but the information is apt to become out of date owing to the rapid advance of science. There has been an exceptional demand for text-books used by students, on account of the crowded state of colleges and universities, where ex-Service men are making up for the time lost while they were engaged in the war. Another factor which accounts for the activity in the publication of chemical works is the expansion that has taken place in the manufacture of chemicals in this country. The war had the effect of emphasising the inadvisability of depending upon other nations for such essential products as chemicals. It is hoped that, despite the difficulties that have been encountered in the economic manufacture of chemicals, sufficient opportunity will be given to ensure that the expansion of the industry will be permanent. It is much to the credit of publishers that not only small text-books but larger works of reference are being produced notwithstanding the high cost of production. Among the latter class is Thorpe's "Dictionary of Applied Chemistry," of which a revised edition of Volume I. has just been issued by Longmans, Green & Co. (60*s*. net). It is interesting to recall that the origin of the work can be traced back to Macquer's "Dictionnaire de Chimie," produced in 1766, an English translation of which first appeared in 1771. The "Dictionary of Chemistry," which William Nicholson brought out in 1795 upon the suggestion of the publishers, was founded on Macquer's work. Ure, who followed Nicholson as the editor of the "Dictionary," was one of the early supporters of the Pharmaceutical Society. His work was continued by Henry Watts, and subsequently by H. Forster Morley and M. M. Pattison Muir. In the preface to the 1888 edition of the work the definite separation of pure chemistry and technical chemistry is promised, which took the form of a three-volume "Dictionary of Chemistry in its Applications to the Arts and Manufactures," Sir Edward Thorpe, at that time, we believe, Professor of Chemistry in the Yorkshire College of Science, Leeds (now the Leeds University), being the editor. The issue of a revised edition in five volumes was begun in 1912 and completed in 1913. We have now a revised and enlarged edition projected and the first volume published. Sir Edward Thorpe is still responsible for its revision, so that continuity is ensured of the main features upon which the reputation of the work has been built. The first volume contains about the same number of pages as the corresponding volume of the last edition, but the matter dealt with only extends to the end of "Calcium," which means that the information up to that point has expanded by about 140 pages. It is mentioned in the preface that the revised edition may extend to seven volumes, this expansion being due to the thoroughness of the revision and the new matters dealt with. In the case of contributors to the last edition who have died such as Dr.

Lewkowitsch and Dr. Witt, other experts have continued the revision or written an addendum to the original article. The plan of the "Dictionary" has been to employ experts in each subject. Drs. Geo. Barger and F. L. Pyman, for example, contribute the articles on alkaloids. Dr. M. A. Whitely writes on other vegetable principles and Professor W. H. Perkin on dye-products. Mr. Jas. Connah, of the Government Laboratory, Dr. W. D. Halliburton, Dr. J. T. Hewitt, Professor C. S. Gibson, Dr. R. Lessing, Dr. G. T. Morgan, and Dr. Walter Rosenhain are among about fifty contributors to the volume. The article on balsams is by Dr. Ida MacLean. As an up-to-date work of reference for all engaged in industrial chemistry the "Dictionary" maintains its pre-eminence. "Modern Chemistry: Pure and Applied" is a new treatise on chemistry by Mr. Arthur J. Hales, B.Sc., of the City and Guilds Technical College, Finsbury. It is published by Virtue & Co., Ltd., in six volumes at 16*s*. each. The first two volumes which have been sent us contain over 270 pages each, and are probably characteristic of the series. The work scheme upon which the work is produced is best indicated by the contents of the different volumes as follows: (1) Non-metals and their compounds; (2) alkali and alkaline earth metals, metals of the aluminium group, including the rare elements, rare gases and radio-activity; (3) chemistry of carbon compounds; (4) esters, camphors, resins, nitro-compounds, and phenols; (5) diazo-compounds, carbohydrates, glucosides, cyanogen compounds, albuminoid substances, heterocyclic compounds; (6) metallurgical metals, including the platinum group. A special feature is the large number of illustrations, many being photographic reproductions of actual manufacturing processes. The author claims to have embraced in his work the subject of chemistry as a whole, and the value of the book is enhanced by the numerous references to sources where fuller details can be obtained of the summarised matters. The work, which begins with the composition of air and water, is written in a matter-of-fact but scientific style, and includes so far as it has progressed modern developments in chemistry, such as recent work on the atoms and radio-activity. Partington's "Text-book of Inorganic Chemistry for University Students," published by Macmillan & Co., Ltd., at 25*s*., is an entirely new work running to 1062 pages. It meets the requirements of students preparing for the Intermediate and Pass B.Sc., examinations of the Universities. Dr. Partington, who is Professor of Chemistry at the East London College, University of London, has produced a scholarly survey of the subject, and includes in the work the results of the most recent researches. The final chapter, for example, deals with radio-elements and the structure of the atom, and is copiously illustrated by diagrams. The work is suitable for pharmaceutical students, especially for those preparing for the Major examination. Of a different nature is Sadtler's "Chemistry of Familiar Things" (Lippincott, 10*s*. 6*d*., pp. 322), which is written to give an insight into chemistry to those whose training is in other sciences or arts. It is really a popular presentation of the chief chemical facts designed to show how largely chemistry is concerned with most of the phenomena of Nature and many manufactured products. There are numerous illustrations, many of them from photographs of processes.

Dangerous Drugs Regulations.

The supplementary report of the Council of the British Medical Association contains the following reference to the Regulations published by the Home Office in accordance with the Dangerous Drugs Act:

The Regulations under the Dangerous Drugs Act, 1920, as revised by the Committee appointed by the Home Secretary after hearing the evidence placed before it by representatives of the Association and the Pharmaceutical and other Societies, have now been published. The Regulations and the report of the Committee justify the belief expressed by the Council that an independent Committee of inquiry would agree that the Draft Regulations were hopelessly impracticable. The criticisms of the Association have received full consideration, and most of them have been met. The Regulations are greatly improved from the point of view of practicability; they contain one clause at least which the Council considers will be of distinct public benefit, namely, that which provides that medicines containing "the drugs" shall not be procurable from a chemist except on a doctor's prescription. The Council decided to raise no further opposition to the Regulations, but agrees with the opinion expressed by its witnesses before the Committee, namely, that with the exception of the provisions whereby the distribution of "the drugs" from the manufacturer to the distributor can be checked, and the clause just mentioned, the effect of the Regulations will not be commensurate with the trouble which they will cause to doctors, chemists and patients.

It is interesting to observe from the notice we published last week that the Home Office intends to charge a fee of 2*s*. 6*d*. for *each* export licence. Up to now these have been granted free of charge. Exporters who have numerous transactions will probably find that the combined effect of the extortionate fees and the delays caused by having to deal with a Government department will prevent export trade being carried on. Business which hitherto has been carried on by British exporters will be driven abroad to the detriment of this country.

Wills

Mr. John Buchanan, chemist and druggist, High Street, Leven, N.B., who died on December 26, 1919, left personal estate in the United Kingdom valued at 3,003*l*.

Mr. Joseph Marples, retired chemist and druggist, 25 Balls Road, Birkenhead, who died on March 3, left estate of the gross value of 968*l*. 1*s*. 8*d*., with net personalty 918*l*. 14*s*. 8*d*.

Mr. Walter Abraham Grace, chemist and druggist, 17 College Road, Great Crosby, who died on April 29, left estate of the gross value of 2,015*l*. 4*s*. 3*d*., with net personalty 1,118*l*. 15*s*. 8*d*.

Mr. Samuel Hardy, chemist and druggist, 7 Ramilies Road, Sefton Park, Liverpool, who died on May 11, left estate of the gross value of 1,797*l*. 3*s*., with net personalty 1,728*l*. 18*s*. 8*d*.

Mr. Herbert Rigby Dorning, chemist and druggist, 9 Rylands Road, Chorley, who died on November 5, left estate of the gross value of 2,194*l*. 7*s*. 9*d*., with net personalty 940*l*. 17*s*. 9*d*.

Mr. Michael Herd Pattinson, chemist and druggist, 68 Thicket Road, Anerley, who died on April 25, left property of the gross value of 3,557*l*. 4*s*. 10*d*., with net personalty 908*l*. 6*s*. 3*d*.

Mr. Humphrey Wynne Williams, chemist and druggist and dentist, Glanytraeth, Barmouth, who died on November 5, left estate of the gross value of 3,190*l*. 9*s*. 6*d*., with net personalty 359*l*. 19*s*. 1*d*.

Mr. William John Ironside Bruce, M.D., radiographer, 10 Chandos Street, Cavendish Square, London, W., who died on March 21, left property of the value of 6,936*l*. 2*s*. 4*d*., all of which he bequeathed to his wife.

Dr. Alexander Wynter Blyth, M.R.C.S., F.I.C., F.C.S., 3 Upper Gloucester Place, London, W., who died on March 30, left 23,229*l*. 14*s*. 3*d*. He gives an annuity of 100*l*. to his son Stuart Wynter, an annuity of 50*l*. to his daughter, Julia Stafford Archer, four leasehold houses in Kingdon Road to Clara Priscilla Rowland, twelve months' wages to all persons in his employ for one year, and the residue of the property to his son Meredith.

Dr. Stefan Minovici

CITIZENS of a Western community may have some difficulty in realising the sterling merits of the chief man in Roumanian pharmacy. Professor Minovici, doctor in chemistry, a pupil of Emil Fischer, Master of Arts and licentiate in chemistry and physics of the University of Bucharest, lecturer and professor of analytical chemistry at the faculty of medicine of the same University, official poison expert to the Roumanian Law Courts, will forgive me if, when introducing him to an English audience, I drop his titles. Englishmen have an inborn diffidence for titles, and when in possession of any they discreetly post-fix instead of prefix such assets to their names. Stefan Minovici is the creator of Roumanian pharmacy; and in the dark, somnolent sky of an Eastern Central European country his personality stands out like a bright star.

DR. MINOVICI.

Pharmacy is not his only field of activity: he is a first-class chemist, as will be seen from the large amount of work he has accomplished in that direction. He is the greatest Roumanian expert in poisons, having occupied during sixteen years the position of official Government adviser and analyst to the Roumanian Law Courts and the Ministry of Justice. In his native land, where science is an absolutely virgin soil, he has sown the seed which will one day bloom forth into splendid fruit. He has published a standard work of analytical chemistry, in four volumes, dealing with qualitative, quantitative, toxicological, and biological analyses. He is the founder and editor of the "Roumanian Bulletin of Chemistry." Among his works in chemistry I can mention only a few of the titles of the papers, as a complete list would be too long to give here.

(1) A study on the phenyl-sulphonic esters of the trihalogenated phenols.
(2) The quantitative determination of acetone.
(3) Some aromatic oximes.
(4) The condensation of benzoic and anisyl-cyano aldehydes.
(5) The location of arsenic in acute poisoning.
(6) The location of barium in acute poisoning.
(7) Characteristic reactions of picrotoxine.
(8) A study on cholesterin.
(9) Some chlorination products of cholesterin.
(10) Action of perhydrol on cholesterin in presence of strong H_2SO_4.
(11) Condensation products from phenylglycollic-nitrilcs and aromatio aldehydes in presence of thionyl-chloride.
(12) De l'application de la lumière électrique intense à la differenciation d'encres superposées.
(13) The various blood reactions from a legal standpoint.
(14) The action of phosphorus on turpentine.
(15) A new condensation product from benzoic aldehyde and mandelic-nitril in presence of phosphorus-pentachloride, etc.

There are also numerous contributions to various scientific foreign and home journals, and to national and international congresses.

When in the year 1897 Stefan Minovici was appointed lecturer at the School of Pharmacy, the school that was actually started in 1854 under Prince Stirbey was in a sore plight; it had two teachers, one for analytical chemistry and another for practical pharmacy; it was dependent on the medical faculty. Its laboratories were housed in the stables and sheds of a rich landowner, and the apparatus and furniture were in a dilapidated state. The pharmaceutical teachers were not recognised as university professors, and were not allowed to take any part in the elections or business concerning the university management. Pharmaceutical students with only four years' gymnasium training were accepted at the school. Stefan Minovici, a young doctor of chemistry, fresh from Emil Fischer's Chemical Institute, believing, however, that a pharmacist is a man of science, engaged in promoting public health and hygiene, set to work to change this deplorable state of affairs. With true psychological instinct he realised the value of a name to the human mind, and he took the first step in petitioning the Ministry of Education to change the name of "Pharmaceutical School" into "Pharmaceutical Faculty," and to enact that students should be accepted only after having matriculated and having passed the same examinations as were required for admission to the University. This was granted, but pharmacy was still considered as a special study in the same category as the study of commerce or agriculture. The second step he took was to ask the University Senate to declare pharmaceutical study to be one of the University faculties, and to place pharmaceutical professors on the University Council, with equal privileges to the other professors. Having gained these points, he then pressed the Ministry of Education to recognise the pharmaceutical faculty as part of the medical faculty, which request was granted in 1912. The third step was to ask the Ministry to give the pharmaceutical faculty the right of granting to pharmacists the titles of licentiate and doctor of pharmacy, a privilege that was legalised in the year 1913. Meanwhile, Minovici formed the Pharmaceutical Association, of which he is a past-President, and also succeeded in building up a first-class laboratory at the pharmaceutical faculty.

Dr. Minovici was born on July 18, 1867, and is still comparatively a young man. Since the war he has taken special interest in English chemical and pharmaceutical institutions, and it is hoped that from the visit he proposes to make to this country he may take back some new inspiration for the benefit of his great ideal—the establishment of an Institute of Pharmacy. He believes that the pharmacists ought to possess an institute where an absolutely complete pharmaceutical education—practical, theoretical, legal, and commercial—could be given. He is concentrating all his efforts in this direction, and, judging from his record, there are great hopes that the Pharmaceutical Institute will soon be established as an imperishable monument of his extraordinary energy.—*Jules Cofman-Nicoresti.*

At the Counter.

AN ORDER for "A box of Infant in Purgatory pills in a box with a picture of half a lady" presented no difficulty to a City assistant who received it.

"EARTHBOUND" had not been filmed when a request was received for "clouds for preserving fruit," but possibly "the pictures" influenced the wording.

THE following may have some reference to aviation :

6*d.* Bisma.
3*d.* Magina.
3 Cabine Soda.
1 Bottle Castoil for are man.

COMING EVENTS CAST . . .—"2*d.* loddinum for spazzims," runs a written request forwarded to us. It is to be feared that the customer's "spazzims" are now costing more. An order for three 1*d.* packages of "catchews" was initialed by the writer, possibly with a view to copyright in the spelling.

IN A SCOTTISH PHARMACY.—A request for a bottle of "convicts' fluid" did not present much difficulty, while an applicant for some stuff "fur bleery een" was supplied with boric acid. "Essence of salmon," however, required some tactful questions before it was discovered that essence of almonds was desired. A demand for "Philadelphian pills" was satisfied with pil. podoph.

Summer Outings

Accrington Chemists' Motor Trip

THE annual outing of the Accrington Pharmacists' Association took place recently, Ripon and Studley Royal, *viâ* Skipton, Grassington, and Pately Bridge, being visited by motor-coach. Messrs. W. R. Cameron and J. S. Snell were the organisers.

Walthamstow Chemists at Stansted

ON June 30 the Walthamstow Pharmaceutical Association motored by charabanc, via Epping Forest, Harlow, and Bishop's Stortford, to Stansted, where a stay of three hours was made in one of the prettiest spots in the neighbourhood. After high tea the members played cricket and other games, altogether a merry time being spent. Messrs. Deeth and Gray were responsible for the arrangements, and Mr. Edmund Willcocks took the above photograph during the afternoon.

AT STANSTED.

Another Birmingham Garden Party

A GARDEN PARTY was given, on June 29, by Mr. and Mrs. T. Hill, Bank House, Coleshill, in aid of the Birmingham contribution to the Pharmaceutical Society's Benevolent Fund, and was attended by about fifty chemists and friends from Birmingham and neighbourhood. Tennis, clock-golf, and various other games were indulged in, and during the afternoon a pastoral play, "Robin Hood and his Merry Men," was presented by Mr. Hill's younger daughter and a number of her companions. This added much to the enjoyment of the visitors, and, incidentally, to the funds. Mrs. Hill provided an excellent high tea, after which prizes were presented to the winning competitors at the various games. Mr. and Mrs. Hill were thanked by Mr. J. W. Atkinson, who presided at the tea. It is hoped that about 15*l*. will be realised for the fund.

Aberdeen Chemists' Motor Drive

THE Aberdeen Pharmaceutical Association held their annual summer outing on June 29. The party, numbering some sixty, were conveyed in motor-charabancs through Skene and Midmar to Kemnay, and the journey was greatly enjoyed. At the "Burnett Arms" a sumptuous tea was provided, and the President (Mr. W. F. Hay) gave the company a welcome and introduced Mr. A. S. Weir, the local representative of the craft, who gave some interesting details of the neighbourhood. After tea the golfing section had a match with some of the local "cracks," and most of the pharmacists returned well beaten. The ladies and remainder of the company visited Kemnay House, where the housekeeper gave them a very realistic account of the ghost which is supposed still to haunt the mansion. After votes of thanks to Convener Mutch and his committee, to whom the success of the day was due, and to Miss Weir for her music during tea, the company set out on the return journey.

Maws Entertain S.W. Londoners

ON June 15 over 100 members and friends of the South-West London Chemists' Association visited the new Parex Sports Grounds, at the invitation of S. Maw, Son & Sons, Ltd., Aldersgate Street. Four motor-charabancs met the members at Clapham Common, and, after a pleasant run across London, arrived at New Barnet about 3.30. The party was received by Dr. and Mrs. Maw, Mr. Mowbray Maw, Mr. and Mrs. Porter, and members of the Parex Sports Club. After a welcome by Dr. Maw, the company sat down to tea in the new pavilion which has been presented to the club by Mrs. Charles Trentham Maw. An enjoyable evening followed. Bowls, tennis, golf, and croquet tournaments were arranged by the Maws Sports Club, the winners receiving handsome prizes. After the games a concert party entertained the company in front of the pavilion. During the tea interval Mr. E. A. Atkins (President) returned thanks to the "House of Maw" for providing such a delightful outing.

To the Chilterns

THE annual outing of the North London Pharmaceutical Association took place on June 30. There was one for the whole day and another for the half-day: both were to meet for tea at Dunstable, Bedfordshire. The morning excursion went through Enfield, on to Hatfield and St. Albans, where lunch was taken. After a visit to the Abbey the journey was continued through Hemel Hempstead and to the Beacon Hill, the most northerly of the Chilterns, which most of the party climbed for a sun-bath and to enjoy the glorious view. On coming down, the journey was resumed to Dunstable, the afternoon charabanc having already arrived. Tea was enjoyed in the open air and the photograph (below) was taken by Mr. J. C. Carter. Afterwards the cars filled up, and a pleasant run home was made through Luton and St. Albans, arriving in London about ten o'clock, the day having been one of the most enjoyable of the long series of outings arranged by the Association.

AT DUNSTABLE.

Up River by Road

THE anti-cyclone which is absorbing all the rain for the moment contributed largely to the enjoyment of the motor-coach tour organised by the Western Pharmacists' Association of London. The morning of Thursday, June 30, was dull, with a lower temperature than usual, but by mid-day the sun was shining, and when the

WESTERNERS AT MAIDENHEAD.

members of the Association and their friends forgathered at Lancaster Gate at 2.30 P.M. the conditions were ideal for a motor run. The number was restricted to eighty-four all told, and the three coaches left promptly, running through Hounslow and Slough direct to Maidenhead, where an enjoyable high tea was provided at the Thames Hotel. The new President (Mr. W. E. D. Shirtliff) was in the chair, and among other well-known Westerners supporting him and Mrs. Shirtliff were Mr. H. S. Watson (his irrepressible predecessor), Mrs. Watson, with Mr. S. Watson and Miss Muriel Watson, Mr. and Mrs. A. R. Melhuish, Mr. and Mrs. W. Brown and Miss Brown, Mr. and Mrs. H. R. Procter and Miss Procter, Mr. and Mrs. B. R. Wilkinson, Mr. and Mrs. N. H. Schollar, Mr. George Roe, and Mr. G. A. Tocher. After tea a photograph was taken, and the company thereafter disported themselves for an hour or so on the river or in the by-ways, as their fancy dictated. The return journey was made by the classic shades of Eton, by Royal Windsor, through the Great Park to Virginia Water (where a short halt was made), and on by Staines to the original starting-place. Thanks mainly to the cheerful imperturbability of Mr. Harry Martin (who had charge of the arrangements), and to the general friendliness so characteristic of the members of this Association, the outing was an unqualified success.

Association Affairs

Edinburgh.—The Edinburgh Chemists', Assistants', and Apprentices' Association held a botanical excursion session on July 1 at Nether Liberton, under the leadership of Mr. J. Rutherford Hill. Some of the plants gathered were: *Reseda Luteola, Erodium cicutarium, Conium maculatum, Matricaria Chamomilla, Symphytum tuberosum, Digitalis purpurea, Veronica Beccabunga.* No plants of *Lychnis viscaria* could be seen on the Blackford Hill, which is the only station in Scotland for this plant. The hill is being quarried by the county council for road metal, and this comparatively rare plant seems in danger of extermination.

Portsmouth.—The Portsmouth Pharmacists' Association held their annual meeting on July 6. New officers for the ensuing year were elected as follows: *President,* Mr. A. B. Sparrow; *Vice-President,* Mr. W. R. Atterbury; *Treasurer,* Mr. W. L. Egerton; *Auditors,* Messrs. Jeans and Thorne. A sum of 5*l.* 5*s.* was voted to the Benevolent and Orphan Funds, and 1*l.* 1*s.* to the Early Closing Association. Ten new members were elected, chiefly as a result of the decision to admit managers of the "company" pharmacies to the Association. Local organisation of the Pharmaceutical Society presented some difficulties, as it was felt that insistence on membership of the Society might exclude valued members of the Association. The Municipal Educational Authority sent a draft scheme for the training of apprentices, three years in the college followed by two years in a pharmacy. It was decided to invite a responsible member of the Authority to confer with the Association. A vote of thanks was passed to Mr. Atterbury for his five years' services as hon. secretary.

TURKEY OPIUM.—The export trade of England and the United States of America is nowadays confined to such narrow limits, owing to the restrictions in force and the difficulty of obtaining a Government licence, that barely one-fifth of the pre-war import takes place, and the market in Turkey reflects these conditions accordingly. A certain quantity is going to South America. Other European countries where export restrictions are more elastic are now developing into distributing centres and are importing quantities far in excess of anything they did previously. Opium from Kara-Hissar, Sparta, and that neighbourhood is now being exported by way of Adalia.—*Department of Overseas Trade Report on Turkey.*

Insurance Act Dispensing

A Record of matters concerning Chemists' interests in the National Health Insurance Acts.

Reports from Local Centres

Portsmouth.—The chemists' accounts for April show a decline in the number of prescriptions dispensed. In February 1921 the scripts dispensed numbered 19,488, as against 14,496 in February 1919, although there was then an influenza epidemic. In April the monthly total had dropped to 11,954. The medicines cost 529*l.* 14*s.* 10*d.*, or 10.63*d.* per script, showing a considerable fall in cost of ingredients as compared with the corresponding period of 1920.

Sheffield.—At the first meeting of the new pharmaceutical committee, held on July 1, Mr. J. T. Appleton was re-elected chairman and Mr. C. H. Hallatt vice-chairman, H. Antcliffe secretary. Mr. Mallinson reported an uncontested election of the new committee, which consists of Messrs. Airey, Appleton, Dawson, Hallatt, Hewitt, Hobson, J. G. Jackson, F. Medley, E. Northend, E. Preston, H. G. Williams, and J. H. Wright.

Wiltshire.—A meeting of the Pharmaceutical Committee was held at Trowbridge on June 29, the chairman being Mr. E. J. Hughes, Melksham. New regulations from the Ministry of Health regarding rural areas were discussed, and action was postponed until the new committee undertakes its duties. Dispensing figures for the first four months of 1921 were 1,832*l.* 15*s.*, against 1,874*l.* 1*s.* 9*d.* in 1920. There was no election for the new committee, the following being appointed: Messrs. J. H. Aplin, R. T. Christopher, E. J. Hughes, H. J. Hughes, F. H. Jolly, T. Rees, J. A. Sharp, W. J. Smith.

Wolverhampton.—Mr. F. J. Gibson, J.P., presided over a meeting of the Pharmaceutical Committee recently. Mr. Mallinson was appointed as returning officer for the Committee election, and at a meeting of panel chemists which followed it was resolved to accept the Ministry of Health's proposal that the Committee elections should be held once in two years, with a suggestion that half the Committee retire annually.

June Drug Tariff

The following are the alterations for June in the Insurance Drug Tariff for Scotland:

Acaciæ pulv., 4½*d.* oz.; acetomorph. hyd., 7*s.* 11½*d.* dr.; acet. canthar., 4*d.* oz.; acid. gallic., 10*d.* oz.; adeps, 2*d.* oz.; adeps benz., 2½*d.* oz.; atropin. sulph., 10*s.* 9*d.* dr.; butyl-chlor. hyd., 2*s.* 10*d.* oz.; caffein., 4*s.* oz.; calcii lact., 6*d.* oz.; chloral hyd., 10*d.* oz.; cocain. hyd., 4*s.* 11*d.* dr.; codein., 6*s.* 6½*d.* dr.; codein. phosph., 6*s.* 1*d.* dr.; emul. olei morrh. c. hypo., 2½*d.* oz.; ferri et am. cit., 5½*d.* oz.; ferri et quin. cit., 2*s.* 1½*d.* oz.; ferrum tart., 8*d.* oz.; hexamin., 1*s.* 3*d.* oz.; homat. hydrobrom., 7*d.* gr.; lin. terebinth., 2½*d.* oz.; lin. tereb. acet., 3½*d.* oz.; liq. formaldehyd., 2*d.* oz.; ol. anisi, 4½*d.* oz.; ol. caryoph., 1*s.* 2*d.* oz.; ol. eucalypt., 4½*d.* oz.; ol. menth. pip., 4*s.* 1*d.* oz; ol. terebinth., 1½*d.* oz.; oxymel. scillæ, 1½*d.* oz.; paraff. dur., 1*d.* oz.; paraldehyd., 6½*d.* oz.; phenac., 1*s.* 8*d.* oz.; physostig. sulph., 1*s.* 1*d.* gr.; potass. sulph., 2½*d.* oz.; pulv. trag. co., 6½*d.* oz.; rhei pulv., 1*s.* 3*d.* oz.; sacch. lact., 2½*d.* oz.; santonin., 11*s.* 5*d.* dr.; sapo moll., 2½*d.* oz.; sod. cacodyl., 3*s.* 6*d.* oz.; sod. sulphocarb., 3½*d.* oz.; sulphonal, 4*s.* 5½*d.* oz.; tragac. pulv., 3*s.* 6*d.* oz.; ung. hyd., 4*d.* oz.; ung. hyd. co., 5½*d.* oz.; zinc. sulphocarb., 3½*d.* oz. *Appliances.—Bandages.*—Flannel, 2½ in., 2*s.* 3*d.* each; 3 in., 2*s.* 8*d.* each. *Gauzes.*—Unmedicated, 1*s.* 9*d.* per roll; boric, 1*s.* 11*d.* per roll; carbolic, 2*s.* per roll; cyanide, 2*s.* per roll; sal-alembroth, 1*s.* 11*d.* per roll; sublimate, 1*s.* 11*d.* per roll; iodoform, 5 per cent., 2*s.* 8*d.* per roll; picric acid, 2*s.* 7*d.* per roll. *Lints.*—Unmedicated: 1 oz., 4*d.*; 2 oz., 7½*d.*; 4 oz., 1*s.* 2½*d.*; 8 oz., 2*s.* 3*d.*; 1 lb., 4*s.* 3*d.* *Boric,* 1 oz., 3*d.*; 2 oz., 5½*d.*; 4 oz., 11*d.*; 8 oz., 1*s.* 8*d.*; 1 lb., 3*s.* 1½*d.* *Wools.—Cotton*: 1 oz., 2½*d.*; 2 oz., 4*d.*; 4 oz., 7½*d.*; 8 oz., 1*s.* 1½*d.*; 1 lb., 2*s.* *Gauze and Cotton-wool Tissue*: 3*s.* per lb.; 2½*d.* per oz.

SOCIETY OF PHARMACY.—Owing to various vacancies and elections that have taken place in the Paris Society of Pharmacy since 1919 it has been necessary to re-form various sub-committees appointed to study the matter of Codex Revision.

Westminster Wisdom

By the "C. & D." Parliamentary Representative

Dentists Bill

The Lords' amendments were considered by the House of Commons on July 1, and agreed to without discussion.

Dangerous Drugs Regulations

Mr. Alfred T. Davies, on July 6, asked the Secretary of State for the Home Department whether he is aware that the committee appointed to consider outstanding objections to the draft regulations issued under the Dangerous Drugs Act, 1920, after considering the claim that prohibition of retailing by pharmacists is *ultra vires* in view of Section 7 (2) of the Dangerous Drugs Act and observing that the point can only be settled by a competent judicial authority, proceeded with their inquiry as if the contentions were not well founded; and whether he has since obtained, or proposes to obtain, the opinion of the Law Officers of the Crown on this contention of the pharmacists.

Mr. Shortt replied: The answer to the first question is in the affirmative; to the second, in the negative.

Ministry of Health Staff

Sir J. D. Rees asked the Minister of Health, on July 6, whether the thirty-two doctors at 1,000*l.* a year, who were appointed by his predecessor, are still retained at his Ministry; and, if so, when he will dispense with their services.

Sir Alfred Mond replied: I presume my hon. friend refers to the Regional Medical Officers. If so, the answer to the first part of the question is in the affirmative. In answer to the second, I refer him to my statement on May 12, introducing the Ministry of Health estimates, in which I made it clear that after personal investigation I thought that this staff does useful work, and should be continued. In any case, I am not in a position to dispense with their services except on the terms of their engagements.

Sale of Vinegar

Mr. Carter asked the President of the Board of Trade, on July 4, whether the Government intend to give effect to the recommendation of the sub-committee appointed by the Standing Committee on Trusts in their report on vinegar, to the effect that since brewed vinegar costs twice as much to produce as does unbrewed vinegar, and that there is at present no adequate means by which the purchaser can distinguish one from the other, it shall be made incumbent upon all sellers of vinegar to make adequate declaration of what they are selling so as clearly to distinguish between brewed and unbrewed vinegar.

Sir A. Mond, who replied, said the purchaser can protect himself by asking specifically for brewed vinegar, in which case it is an offence under the Sale of Food and Drugs Acts if the vendor supplies unbrewed vinegar. But there is no statutory power to require the seller to make any declaration so long as the article sold falls within the description given by the purchaser. He could hold out no hope of legislation on the subject in present circumstances.

Safeguarding of Industries Bill

The Committee stage of this Bill began in the House of Commons on June 29. On Clause 1 several amendments were moved, to be afterwards withdrawn or rejected. During the discussion it was stated that the proposed grant of 500,000*l.* to hospitals would be neutralised if the equipment to be obtained with the money is subject to the duties imposed by the Bill. Mr. A. M. Samuel raised the question as to whether pyroxylin comes under the Bill, either as a colouring matter or a fine chemical. He said we cannot make pyroxylin in this country, owing to the cost of industrial alcohol. Would imported patent leather in the manufacture of which pyroxylin has been used be included in the Bill? No reply was given to the member's inquiry. Part of Clause 2 was disposed of the same evening. On June 30, when the debate was continued, a proposal was rejected to the effect that no order to apply the powers of Part II. to Part I. (as is proposed in Clause 2) should be made if the effect will be to diminish the aggregate employment in the United Kingdom. Clauses 2 and 3 were afterwards added to the Bill without amendment.

Reparations Dyes

Sir W. Barton asked the President of the Board of Trade on July 5 whether he is aware that the prices charged for synthetic dyestuffs received from Germany under the Reparation Clauses of the Treaty of Versailles are much higher than those charged by Germany to her own customers in other countries, and are consequently hindering the recovery of British textile industries; and will he state the names of the representatives of the consumers in consultation with whom the prices were fixed, and by whom they were appointed to discharge this duty.

Sir P. Lloyd-Greame replied that he had no reason to think that there is any general divergence of prices such as the hon. member suggests, or that the prices charged are retarding the recovery of the British textile trade, but he would be glad to consider any definite evidence on the subject which he is able to adduce. As regards the second part of the question, the basis on which the prices charged by the Board of Trade for reparation dyes were originally fixed was unanimously recommended by the Trade and Licensing Committee. The prices have since been revised from time to time to meet changes in market conditions, in consultation with Mr. G. E. Holden (of the English Velvet and Cord Dyers' Association, Ltd.) and Mr. C. Rawson (of the British Cotton and Wool Dyers' Association, Ltd.), who were nominated for this purpose by the Colour Users' Association on August 5, 1920.

Bankruptcy Reports

Re Ernest Geo. Hill, chemical importer and exporter, Fenchurch House, 5 Fenchurch Street, London, E.C. The public examination of the debtor was held at the London Bankruptcy Court on June 24, before Mr. Registrar Francke, the accounts showing liabilities 1,264*l.* and assets nil. In the course of his evidence the debtor stated that in 1918 he entered into partnership with his brother and traded as general merchants and importers and exporters of chemicals; his brother retired in January 1919, and witness continued the business alone until the following August, when he transferred it to Hill Bros (London), Ltd. As vendor he received 14,000 fully-paid shares and the post of managing director at a salary of 280*l.* per annum, which post he held until the company went into liquidation in December 1920. Heavy interest charges and loss of income through the failure of the company were the reasons given for the debtor's own failure. The examination was concluded.

Re Felice Bonaventura & Co., general merchants and importers, 24 Great Tower Street, London, E.C. An application was made to Mr. Registrar Hope at the London Bankruptcy Court on June 29 for an order of discharge on behalf of Edwin Harrison, a partner in this firm, which traded in chemicals, drugs, dried fruits, and general merchandise. A similar application was made recently by F. L. Bonaventura, the senior partner (*C. & D.*, June 4, p. 57). Mr. W. P. Bowyer, senior official receiver, now reported that the applicant, a qualified chemist, was admitted a partner in July 1916, when the firm took premises at Stratford for the purpose of manufacturing lanoline; they spent 1,200*l.* in machinery, and traded as the "Hab Chemical Co.," but the branch was not a success and was closed down at the end of 1918. The general merchants' business was continued until the failure in October 1920. The official receiver further reported that no dividend could be paid on the liabilities of 16,250*l.*; and as offences: (1) Insufficiency of assets to equal 10*s.* in the £ on the amount of the liabilities, and (2) trading with knowledge of insolvency. His honour suspended the discharge for two years.

Trade-marks Applied for

The figures in parentheses refer to the classes in which the marks are grouped, for a list of which, with particulars as to registration, see "The Chemist and Druggist Diary," 1921, p. 300.

(From the "Trade-marks Journal," June 1, 1921.)

"KEIPA" on diamond-shaped device; for a stain-remover (47). By W. K. Palmer, 103 Fillebrook Road, Leytonstone, London, E. 11. 413,269.

"NUCTONE"; for hair preparations (48). By J. Stewart, 122 Princes Street, Edinburgh. 410,684. (Associated.)

"VICOMA" (Hair Life), with device of long-haired woman holding scroll and monogram "TB" ("Hair Life" disclaimed); for a hair preparation (48). By T. Brooks, 87 Turnpike Lane, Hornsey, London, N. 8. 412,654.

"GYNOR"; for perfumery, etc. (48). By Maise du Laar, 11 Rue Saulnier, Paris. 413,694.

(From the "Trade-marks Journal," June 8, 1921.)

"HELIONICE" on seal device (seal device disclaimed); for chemicals (1). By Société Anonyme des Industries Chimiques de Wilsele, 88 Chaussée d'Aerschot, Wilsele-lez-Louvain, Belgium. 411,798.

"NERCO," for chemicals (1); "RASEVAN," for insect- and moth-destroying preparations (2). By N. Evans & Rais, Ltd., 427-433, Produce Exchange, Manchester. 413,411; 412,274.

"CHARNELL"; for disinfectant soap (2). By A. H. Albert, 15 Hale Road, Wallasey, Cheshire. 413,121.

"PHOSALINE"; for a bird medicine (2). By E. J. Allcoat, 70 Derby Street, Burton-on-Trent. 413,188.

"EVICTA"; for vermin-destroyers (2). By C. F. and A. C. Hansen, 20A Islington, Liverpool. 413,316.

"SNIPER"; for fly bands and paper (2). By H. Silander & Co., 59 St. Mary Axe, London, E.C. 3. 414,192.

"VAPORUB"; for medicated salves (3). By Vick Chemical Co., 100 Milton Avenue, Greensboro, Guildford, North Carolina, U.S.A. 408,756.

"NEUPRO"; for embrocations (3). By Mathilda Alprovich, 41 Devonshire Place, Jesmond, Newcastle-on-Tyne. 412,086. (Associated.)

"MUNDOPLASTE"; for medicinal chemicals (3). By C. Blank, Haydnstrasse 28, Bonn-on-the-Rhine, Germany. 413,132.

"COMALONGA"; for internal preparations for nourishing the hair (3). By H. Cohrs, Weissekreuzstrasse 35, Hanover, Germany. 413,719.

"FISHER MAID"; for medicinal chemicals (3). By Boots Pure Drug Co., Ltd., 37 Station Street, Nottingham. 414,053.

"PA-MOL"; for paraffin for an ointment base (4). By Reynolds & Branson, Ltd., 13 Briggate, Leeds. 412,856.

"OXENE"; for all goods (4). By the Southdown Chemical Co., Ltd., Beaufort Road, Birkenhead. 412,578.

"ROSALYL" on bordered label devices; "ROSALYL ROSE & LILY" on oblong label device ("Rose & Lily" disclaimed); for perfumery, etc. (48). By Taylor's Drug Co., Ltd., Burley Hill, Leeds. 412,857/858/859/860. (Associated.)

"VIVOMINT"; for perfumery, etc. (48). By V. Vivaudou, Inc., 418-426 West 25th Street, New York, U.S.A. 414,254.

"RAZORITE"; for powder for dressing razor-strops (50). By G. Tofer & Co., 47 Poland Street, London, W. 1. 411,112.

(From the "Trade-marks Journal," June 15, 1921.)

"FUELADOL"; for a chemical coal improver (1). By M. Oppenheimer, 23 Moor Lane, London, E.C. 2. 365,265.

"SORBOID" and "SANASORBEN"; for chemicals (1) and for medicinal chemicals (3). By W. Adler, 11 Haupstrasse, Karlsbad, Czecho-Slovakia. 411,260/261/262/263. (Associated.)

"TARTAN"; for soap dyes (1). By Ogston & Tennant, Ltd., Wright Street, Renfrew. 413,365. (Associated.)

"PONSOL," "PONTAMINE," "PONTACYL," and "PONTACHROME"; for chemicals (1) and for goods (4). By E. I. Du Pont de Nemours & Co., 1007 Market Street, Wilmington, Delaware, U.S.A. 413,523/524/531/532/533/534/535/536. (Associated.)

"FLINTESCO"; for chemicals (1). By F. McNeill & Co., Ltd., 4 South Place, London, E.C. 2. 413,549.

"SOLOMIA"; for chemicals (2). By Solomia, Ltd., 182 and 183 Fleet Street, London, E.C. 4. 413,740.

"NEGUVON"; for chemicals (2). By F. Bayer & Co., Leverkusen, Germany. 414,442.

"BLUE STAR" over device of stars; for animal medicines (2). By Southall Bros. & Barclay, Ltd., 19-21 Lower Priory, Birmingham. 414,496. (Associated.)

"HUCROSS," forming cross device, for medicinal chemicals (3) and for toilet preparations (48); "HUCROS," for toilet preparations (48). By H. Crossin, 130 Donegall Street, Belfast. 411,796/797/795. (Associated.)

"SHORUSETIC"; for local anæsthetics (3). By G. Ross, 12 Victoria Road, Darlington. 413,110.

"COMBUSTIN"; for ointments (3). By Combustinwerk Eulitz & Co., Fährbrücke, Saohsen, Germany. 413,443.

"MALTO-YERBINE"; for medicinal chemicals (3). By the Maltine Manufacturing Co., Ltd., 9 Holborn Viaduct, London, E.C. 1. 413,749. (Associated.)

"TESTOGAN" and "THELYGAN"; for medicines (3). By Victor Halper, Norfolk House, Laurence Pountney Hill, Cannon Street, E.C. 4. 414,020/021.

"WYNOT"; for medicinal chemicals (3). By J. Watson & Sons, Ltd., Whitehall Road, Leeds. 414,189. (Associated.)

"CYARSAL"; for all goods (3). By J. D. Riedel Aktiengesellschaft, 1-32 Riedelstrasse, Berlin. 414,469.

"HOMUSA"; for goods (47), toilet preparations (48), and for goods (50). By Browne & Co., Ltd., Eagle Works, Hatcham Road, Peckham, London, S.E. 15. 413,878/879/880. (Associated.)

"DEEPA" under oval device of native woman; for toilet articles (48). By the Proprietors of the Kerala Soap Institute, Calicut, Madras, India. 411,855.

"SUNDUST"; for perfumery, etc. (48). By Hugo Wolff, 21 Hart Grove, Ealing Common, London, W. 5. 412,405.

"BERENICE"; for toilet powder (48). By Barclay & Sons, Ltd., 95 Farringdon Street, London, E.C. 4. 414,359.

(From "The Trade-marks Journal," June 22, 1921.)

"LITHOSOL"; for chemicals (1). By E. I. Du Pont de Nemours & Co., 1,007 Market Street, Wilmington, Delaware, U.S.A. 413,529. (Associated.)

"THROMBOL"; for all goods (1). By W. Walker & Sons, Ltd., Rose Hill Tannery, Nelson Street, Great Lever, Bolton. 414,282.

"SANEROS"; for chemicals (1). By Hoyle, Robson, Barnett & Co., Ltd., St. Nicholas Chambers, Amen Corner, Newcastle-on-Tyne. 414,422.

"DOUCIL"; for water-softeners (1). By J. Crosfield & Sons, Ltd., Bank Quay, Warrington. 414,697.

"PESTICON"; for chemicals (2). By R. T. Robinson, 77 The Avenue, Higham's Park, London, E. 4. 414,183. (Associated.)

"IYDROSHANTI"; for sheep dips and disinfectants (2). By E. Wade-Wilton & Son, Hill Top, Bramley, near Leeds. 414,540.

"DREADNOUGHT" on circular device; for medicinal chemicals (3). By Gale & Co., Ltd., 15 Bouverie Street, London, E.C. 4. 408,272. (Associated.)

"COLACTOL"; for medicinal chemicals (3). By I. Deiglmayr, Baierbrunnerstrasse 14 and 16, München, Germany. 410,289.

"FAIRYFOOT" on label device; for medicated foot remedies (3). By H. Cohen, 25 Victoria Place, Leeds. 412,789.

"IZET"; for medicinal eye preparations (3). By the Ophthalmic and Chemist Supply Co., Ltd., 168 Regent Street, London, W. 1. 413,065.

"DALMA" and "DALMAPLAST"; for medicinal chemicals (3). By A. de St. Dalmas & Co., Ltd., 40½ Belgrave Gate, Leicester. 413,619/620. (Associated.)

"ELDRAW"; for all goods (3). By Wardle's Drug Stores, Ltd., 28 and 30 Egerton Street, Moses Gate, near Bolton. 414,010.

"MELANGO"; for medicinal chemicals (3), fermented liquors and spirits (43), and for mineral waters, etc. (44). By W. J. Bush & Co., Ltd., 28 Ash Grove, Hackney, London, E. 8. 414,107/109/110. (Associated.)

"GAUROL"; for a pharmaceutical preparation (3). By Pépin & Leboucq, 30 Rue Armand Sylvestre, Courbevoie, France. 414,158.

"KÉLENE"; for chloride of ethyl for producing anæsthesia (3). By Société Chimique des Usines du Rhône, 21 Rue Jean Goujon, Paris (VIIIme). 414,307.

"SOLZENON"; for medicinal chemicals (3). By Solomia, Ltd., 182 Fleet Street, London, E.C. 4. 414,530.

"MELANETTES"; for a liquorice and menthol preparation (3). By Taylor's Drug Co., Ltd., Burley Hill, Leeds. 414,700.

"BIWIN"; for mineral waters, etc. (44). By the Liebig Medicated Wine Co., Ltd., Healey House, near Huddersfield. 409,321. (Associated.)

"CASTRA"; for all goods (48). By the Gowm Manufacturing Co., 68 Watergate Street, Chester. 413,765.

"VINTELLE"; for all goods (48). By Munro, McLaren & Sutherland, 17 Cadogan Street, Glasgow. 408,515. (Associated.)

"KILBEET"; for all goods (48). By H. Orpen, 31 Compayne Gardens, Hampstead, N.W. 6. 414,668.

"QUELLE SURPRISE"; for perfumery, etc. (48). By the Erasmic Co., Ltd., Bank Quay, Warrington. 414,699.

Dyes Profiteering Inquiry

A REPORT on dyes and dyestuffs prepared by a sub-committee appointed by the Standing Committee on Trusts has been issued [Cmd. 1370] as a White Paper. The principal purpose of the inquiry was to ascertain to what extent supplies, prices, and costs of dyes and dyestuffs in this country, and profits thereon, are affected by any trade combination. Evidence was obtained from the Board of Trade, the principal dye-makers and representative consumers, and from associations interested in dyes and dyestuffs, and the conclusions reached, except in the case of a minority report signed by one of the members of the sub-committee, is that the amalgamation of British Dyes, Ltd., with Levinstein, Ltd., into a single large concern, the British Dyestuffs Corporation, Ltd., was, all things considered, in the best interests of the industry, its customers, and the nation. Much of the matter dealt with in the report is now familiar history, particularly that dealing with the pre-war position of the dye-making industry, the development of the German industry, and emergency supplies during the war. An account is given in detail of the action taken by the State to develop the industry by the formation of British Dyes, Ltd., and the progress made by this company before its amalgamation with Levinstein, Ltd. The sub-committee draws attention to the fact that although the British Dyestuffs Corporation manufacture 75 per cent. of the total output of dyes in the United Kingdom, many other dye-makers have contributed considerably to the increased output and increased efficiency of the dye-making industry in this country. Of these smaller makers, the report gives the following particulars :

(1) *The British Alizarine Co., Ltd.*
This company, which was established in 1882, has specialised in one particular type of colour, and for many years before the war competed so effectively with the German manufacturers that shortly before the war the latter were compelled to admit them into the Alizarine Convention. The company is practically owned by the United Turkey Red Co., the Calico Printers' Association, Ltd., and other textile firms, who are, of course, large consumers of their colours. The output of the British Alizarine Co. has been much increased during the war, and new plant and buildings are in course of erection, which will give a further large increase.

(2) *Scottish Dyes, Ltd.*
This company was started by the Morton Sundour Fabrics, Ltd., for the purpose of producing the special fast colours necessary for their trade, and it is the only concern specialising in higher-class dyes alone. A large amount of research work has been carried on, and the company has been successful in manufacturing a number of special vat colours in commercial quantities. It has now erected works at Grangemouth.

(3) *L. B. Holliday & Co., Ltd.*
This company was established in 1916 by a former director of Read Holliday & Sons; for some time it was engaged solely in the manufacture of explosives, but when that ceased attention was turned to dye-making, and there is now a fairly large and varied output, including certain specially important colours, such as fast direct cotton colours, saffronino, methyl violet, etc. The company has erected new works at Huddersfield, which, although not comparable in magnitude with the works of the British Dyestuffs Corporation as a whole, are of considerable extent and well devised for their purpose.

(4) *Brotherton & Co., Ltd.*
This company purchased, under the Trading with the Enemy Acts, the Mersey Chemical Works, formerly owned jointly by three German companies. The company's products are colours used for woollen dyeing, metachrome, afterchrome, and acid colours and direct cotton colours.

(5) *Clayton Aniline Co., Ltd.*
This company is owned jointly by three Swiss concerns—the Society of Chemical Industry, the Sandoz Chemical Works, and J. & R. Geigy—and one of its chief activities is the manufacture of intermediates for shipment to its Swiss principals. It produces, however, large quantities of aniline oil and salt, and it is now developing the manufacture of colours.

A number of other companies (about twenty-five) are engaged in the manufacture of intermediate or synthetic dyes in larger or smaller quantities; and a list of these is given in Schedule 1 of the report. These independent firms therefore produce 25 per cent. of the country's output of dyes, and in the opinion of the sub-committee afford an additional salutary check on the corporation's cost of production and a safeguard against the abuse of monopoly. The report gives the reasons for the increased prices during the war, and finds that they have been attributed to the very high cost of raw materials, increased cost of fuel, labour, machinery, etc. As regards the increase in prices of raw materials, the following statement shows the percentage increase in the price of some of these materials in September 1920 and in April 1921 compared with the pre-war price :

Material.	Cost Price pre-war			Price in Sept. 1920			Price in April 1921			Percentage increase in price, Sept. 1920, over pre-war price	Percentage increase in price, April 1921, over pre-war price
	£	s.	d.	£	s.	d.	£	s.	d.	per cent.	per cent.
Anthracene 40 p.c. cwt.	0	6	8	2	13	4	1	16	8	700	450
Naphthalene ... ton	9	15	0	60	0	0	20	10	0	515	110
Muriatic acid ... cby.	0	1	1	0	9	0	0	7	0	731	546
Bichromate of soda lb.	0	0	3	0	0	9	0	0	7½	200	150
Soda ash... ... ton	3	5	0	5	12	6	7	6	9	73	126
Double oil of vitriol ,,	3	10	0	9	17	6	9	0	0	182	157
Caustic soda ... ,,	13	7	10	22	0	0	24	10	0	64	83
Brown oil of vitriol ,,	2	8	0	5	0	6	4	15	0	109	98
Oleum ... ... ,,	3	10	0	10	15	0	10	15	0	207	207
Salt ... ... ,,	0	12	4	2	19	11	3	2	10	385	409
Lime ... ... ,,	0	15	0	2	15	7	2	15	6	271	270
Crude naphtha ... gall.	0	0	6½	0	1	11½	0	1	11½	258	258
Methyl alcohol ... ,,	0	2	10	1	8	8	0	7	10	912	176
Nitrate of soda ... ton	10	10	0	24	15	0	21	15	0	136	107
Nitrite of soda ... ,,	25	0	0	82	10	0	47	10	0	230	90
Sulphite of soda conc. ... ... ,,	7	15	0	21	0	0	31	0	0	171	300

The sub-committee is satisfied that in the case of many of the above chemicals a more or less effective control exists, but this control explains to a slight degree only the great increase in the selling price of dyes and dyestuffs, and for that reason they did not deem it necessary to pursue these inquiries very far. Among the sub-committee's conclusions are the following :

During and since the war the dye-making concerns of Germany, the United States, and Switzerland have become merged or linked into great combinations.

The giant concern is not necessarily more efficient, enterprising, or economical in each separate department of its manufacturing operations than the smaller inter-competing concerns; but inasmuch as international competition in dyes has become a matter not merely of producing the most acceptable article at the most favourable price, but also a contest in which massed commercial and financial power plays a great part, we are inclined to the opinion that the policy represented by the formation of the British Dyestuffs Corporation, Ltd., was and is a right one.

Further developments of the policy of combination in the dyes industry should, if called for, take the shape of alliances with concerns supplying the principal materials used in dye manufacture. Such a development would not be objectionable provided the representative character of the directorate is maintained and provided control over materials is not used to prejudice other dye-making concerns.

Nothing should be allowed to enter into the constitution or practices of the British Dyestuffs Corporation, Ltd., which would enable it to prejudice or disable the competing power of other British manufacturers of dyes, nor should it be accorded preferential treatment. The freedom of the Corporation, however, to meet any action on the part of other manufacturers which would be contrary to the interests of the consumer should not be hampered.

In order to secure co-ordination of production, pooling of research and its results, and the pursuance of a common policy, there should either be constituted an association of dye manufacturers or the consultative and advisory council proposed under the Dyestuffs (Import Regulation) Act should be developed in this direction. It should be an essential part of public policy to require any such association or council to acquaint home buyers of their products, through the medium of their trade associations, with the nature and terms of any and all agreements or understandings between the manufacturers concerning prices or affecting equitableness of distribution.

Trade Report

The prices given in this section are those obtained by importers or manufacturers for bulk quantities or original packages. To these prices various charges have to be added, whereby values are in many instances greatly augmented before wholesale dealers receive the goods into stock, after which much expense may be incurred in garbling and the like. Qualities of chemicals, drugs, oils, and many other commodities vary greatly, and higher prices than those here quoted are charged for selected qualities of natural products even in bulk quantities.

42 Cannon Street, E.C. 4, July 7

It cannot be said that there is as yet any perceptible broadening in the amount of business done as the result of the settlement of the outstanding labour questions, but at the same time the feeling is hopeful that trade will slowly revive. There is certainly no reaction in the more cheerful tone initiated in Mincing Lane produce a fortnight ago. The demand for Japanese refined camphor has quietened down, but there is now little spot stock available. Menthol continues quiet, with the price for forward shipment closely approximating that on the spot. Balsams are unchanged, but the arrival prices of Peru and tolu are the turn easier. Ergot is offered at a reduction, and business is passing in new-crop Spanish. Acacia gums are firmer. New-crop senega is irregular, with spot unchanged. Shellac is lower. Fenugreek seed has been in good demand; coriander is dearer, linseed is firm, and caraway steady. Cloves are dearer, and pimento is a trifle easier. Peppers, mace, and cassia lignea have advanced.

Higher	Firmer	Easier	Lower
Almonds Cassia lignea Cloves (Zan.) Coriander seed Mace Peppers	Arrowroot Benzols Canary seed Gum acacia Naphtha (soivent) Orange oil (Sic.) Oxalic acid Pot. bichrom. **Steadier** Fenugreek seed Pot. sulpho-guaiac.	Apiol Balsam Peru (c.i.f.) Balsam tolu (c.i.f.) Chrysarobin Citric acid Epsom salt (comml.) Geranium oil Hydroquinone Lemongrass oil Methyl sulphonal Palmarosa oil Pimento Salicylic acid Soda chlorate Spearmint oil Tartaric acid	Codeine and salts Emetine hydrochlor. Ergot Morphine salts Potash caustic Pot. permang. (comml.) Salicin Shellac Strychnine and salts

Cablegram

Bergen, July 6.—The market for finest Lofoten medicinal cod-liver oil is quiet at from 100*s*. to 102*s*. per barrel c.i.f. U.K.

Crude Drugs, etc.

Antimony.—The demand for foreign refined is very dull, and cheaper offers have been reported; business has been done at 23*l*. 10*s*. per ton c.i.f. to arrive. English regulus is as before; crude is quoted at about 16*l*. 10*s*. c.i.f. for June-July shipment, and at 18*l*. on the spot. In view of the sharp rise in silver, China seems less anxious to sell.

Balsams.—*Peru* on the spot is not too plentiful at 8*s*. per lb.; for shipment the price quoted is 7*s*. 6*d*. c.i.f., which is easier. *Tolu* is worth about 1*s*. 8*d*. per lb. on the spot, but there is an easier tendency for forward shipment at 1*s*. 6*d*. c.i.f. and slightly less. *Copaiba* is obtainable at 2*s*. per lb. spot, and this can be shaded for quantity.

Cadmium.—Holders' terms are steady at 6*s*. to 6*s*. 3*d*. per lb.

Camphor (Crude).—Chinese is quoted at 2*s*. 9*d*. per lb. on the spot and at 2*s*. 6*d*. c.i.f. for June-July shipment.

Camphor (Refined).—The demand has quieted down, but stocks of Japanese slabs are now very small; probably 4*s*. 3*d*. would buy, and Chinese is 3*s*. 10½*d*. spot; Japanese for June-August shipment is quoted at 3*s*. 7½*d*. c.i.f.; Chinese afloat is 3*s*. 6*d*. and 3*s*. 4½*d*. c.i.f.

It is reported from Tokyo that, owing to the dullness of trade with America and the inactivity of the celluloid industry, last year's supply of camphor is still unsold. The monopoly office has therefore decided to reduce its output for 1921 to 6,000,000 kin, which is 1,000,000 kin less than last year. The prices, however, will not be reduced.

Cascara Sagrada.—A few spot orders have been placed at about 85*s*., and for small quantities up to 90*s*. is asked and paid.

Chamomiles.—Belgian offer at from 120*s*. to 130*s*. per cwt. on the spot, as to colour. The new Belgian crop is due in about a month, and owing to the fine weather the colour is expected to be "extra white."

Cocoa Butter.—At the Amsterdam auction Van Houten's "A" quality sold at 91.37c. per half-kilo., against 95.39c. in June; "B" quality sold at 85.09c., against 92.68c. in June.

Cod-liver Oil.—Our Bergen correspondent writes on June 28 that all the Norwegian cod-fisheries of this season are now closed. The total output, in comparison with that of previous years, is as follows:

	Catch of cod (millions)	Steam-refined cod-liver oil (hectol.)	Livers for crude oil (hectol.)
1921	39,000	57,388	13,367
1920	38,800	58,951	6,206
1919	30,200	37,612	5,293
1918	24,400	21,492	19,856
1917	27,700	37,129	6,824
1916	51,400	60,068	5,379

As the exchange on sterling is fluctuating and very high at present, the quotations of the different exporters vary relatively in accordance with the view they are taking as to the exchange. To-day's quotation in sterling for finest new non-freezing steam-refined cod-liver oil is from 100*s*. to 102*s*. per barrel c.i.f. London. Prices on the spot as quoted by agents are about 95*s*., and to arrive 90*s*. c.i.f.

Egg Products are steady, with sellers of prime Chinese liquid hen yolk at 130*s*. per cwt., and for June-August shipment the value is 85*s*. per cwt. c.i.f. Dried yolk is 5*d*. and sprayed whole egg 1*s*.; Native dried whole is 6*d*.—all spot. Prime hen albumen has been sold at 2*s*. 10*d*. per lb. on the spot, and 2*s*. 8½*d*. per lb. c.i.f. is quoted for July-August shipment.

Ergot is rather cheaper, Spanish or Portuguese offering at from 5*s*. 3*d*. to 5*s*. 6*d*. per lb. in consequence of fair-sized arrivals. Business has also been done in new-crop Spanish to arrive at lower figures.

Farina is quiet, the spot price of No. 1 Japanese being nominal, and for June-July shipment 21*s*. per cwt. c.i.f. is quoted. Dutch on the spot is 19*s*., and 18*s*. f.o.b.

Gum Acacia is firmer, fair Sudan sorts offering at 45*s*. per cwt. and cleaned at 50*s*. on the spot.

Honey is quiet, with amber to pale Jamaica offering at from 35*s*. to 55*s*. per cwt. and dark at 28*s*.; Australian is 30*s*.

Linseed Oil.—Alternate undercurrents of firmness and ease have been seen lately, although the home demand has been rather better, and should eventually show more evidence of recuperation. The weaker tendency of the seed market has overshadowed the position in the by-product. London closed on Wednesday at 35*l*. 10*s*. naked and Hull at 33*l*. 5*s*.

Magnesium is quietly steady at late rates, with a little demand for Continental at about 5*s*. 8*d*. per lb.

Menthol is quiet, with sellers of Kobayashi-Suzuki at 19*s*. per lb. on the spot and July-August shipment at 18*s*. c.i.f., so that there is little inducement to buy forward.

Mercury.—The demand continues disappointing, although it was reported that there was a little more activity towards the close of last week. A very large supply is apparently available, as arrivals have been taking place rather freely for some time past from Spain and other Continental countries. Export business is slow, and quotations are still at 10*l*. 15*s*. to 11*l*. per bottle. Recent advices from America state that the tone firmed up with some rally to over $46 per flask, due to a report that there was a Japanese inquiry in the market for a good line. This may seem curious considering that Eastern offers of re-sales in America were recently one of the main depressing factors.

MUSK.—Genuine Tonquin natural pods are quoted on the spot at 135*s*. per oz.

PLATINUM.—There is a steady demand for raw metal, the current quotation being 17*l*. per oz., and the leading refiners ask 20*l*. per oz. for refined. The consumption of platinum in the United States for last year was reported as 141,041 oz., of which the jewellers took 57 per cent., the electrical industry 19 per cent., the dental industry 11 per cent., the chemical industry 10 per cent., while 3 per cent. was absorbed for other uses. The stocks at the end of 1920 were returned at 67,508 oz., which is an increase of 55 per cent. compared with the previous year.

SASSAFRAS BARK OF ROOT is selling at about 3*s*. 3*d*. per lb. on the spot.

SENEGA is still quoted at 3*s*. per lb. on the spot, but forward prices for new crop are irregular at from 3*s*. c.i.f. and upwards.

SERPENTARY.—At the reduced prices it is still difficult to effect business.

SHELLAC is lower on balance. Last week the spot market for usual standard TN Orange quality closed at 310*s*., but on Tuesday sales were made at 320*s*., at which the market closed on Wednesday. Fine lemon is 430*s*., fine second orange 410*s*., RLI 375*s*., AC free garnet 305*s*., GAL 270*s*., and IG 235*s*. In the delivery market August shows little change compared with last week, from 260*s*. to 255*s*. to 265*s*. being paid, but October delivery advanced from 210*s*. to 240*s*. to 235*s*., with sales thereat.

The landings and deliveries in London of orange, garnet and button lac during June were 5,573 cases and 3,184 cases respectively, and the stock on July 1 was 8,149 cases (excluding 60 tons salvage block), compared with 10,891 cases last year and 25,393 cases in 1919.

STRAMONIUM LEAVES of good quality can be had at 130*s*. per cwt. on the spot.

TURPENTINE.—There has been a further notable shrinkage of the stocks here, the total of all descriptions being only about 6,800 barrels, and unless supplies come along from America on a fair scale in the near future it is almost probable that our market will soon become affected by the scarcity. For the moment, however, speculation is still having a rest, due to American trade uncertainties. Prices have not fluctuated very much just lately, and close nominal at 80*s*. per cwt. for spot.

VERMILION.—English makers' prices are from 4*s*. 4*d*. to 4*s*. 7*d*. per lb., according to quantity.

Seeds and Spices

ALMONDS show a sharp advance, and as the market is poorly supplied prices are likely to be maintained until the new crop is available about September.

ANISE.—There is no business reported, and quotations are nominally unchanged at 75*s*. to 77*s*. 6*d*. per cwt. for Russian and Spanish.

ARROWROOT is firmer, good manufacturing St. Vincent offering at from 3*d*. to 3¼*d*. per lb. Deliveries during June were good.

CANARY SEED is in rather better demand, especially for good Morocco, which has been sold at 95*s*. per quarter, but sellers are now holding for 97*s*. 6*d*. Fair ordinary is quoted 82*s*. 6*d*. to 85*s*.

CARAWAY SEED is steady at 28*s*. to 28*s*. 6*d*. per cwt. for fair Dutch and 30*s*. 6*d*. for fine; North African is quoted 19*s*.

CASSIA LIGNEA is dearer, with spot sellers of selected whole at 35*s*. and broken at 22*s*. 6*d*. per cwt.

CLOVES are dearer, fair Zanzibar having been sold on the spot at 9*d*. to 9⅜*d*. per lb., and July-August shipment has been done at 8½*d*. to 9*d*. c.i.f.

CORIANDER SEED is dearer, with sales at 20*s*. 6*d*. per cwt. for sound Morocco and 13*s*. 6*d*. for slightly wormy.

CUMIN SEED sells slowly at 30*s*. per cwt. for good 1920 crop Morocco; for 1919 crop 27*s*. 6*d*. would probably be accepted.

DILL SEED is quoted at 24s. per cwt., without business resulting.

FENNEL SEED is quoted at 35*s*. per cwt. for ordinary East Indian.

FENUGREEK SEED has been in good demand, with sales at 9*s*. per cwt. for dark colour and 9*s*. 6*d*. for fair, but holders now ask 10*s*.

HEMP SEED is steady at 21*s*. to 22*s*. per cwt. for fair Manchurian, according to quantity.

LINSEED is firm at 20*s*. to 21*s*. per cwt. for English and 23*s*. for Morocco.

MACE is dearer; fair Singapore is 1*s*. 2*d*. to 1*s*. 3*d*., ordinary 1*s*., common pickings 9*d*. to 10*d*.; good West Indian 1*s*. 3*d*. to 1*s*. 4*d*. per lb.

MUSTARD SEED is easy at 22*s*. to 25*s*. per cwt. for fair to good English yellow.

PEPPER is dearer, with sales of fair black Singapore on the spot at 4¼*d*. per lb.; to arrive, June-August shipment has been sold at 4 5/16*d*. and August-October at 4¼*d*. to 4 7/16*d*. c.i.f. Lampong is 4¾*d*., Tellicherry at 4½*d*., and Aleppy at 4½*d*. spot. *White* pepper is also firmer at 9½*d*. to 9⅝*d*. for fair Muntok, at which sales have been made; June-August shipment has been sold at 9⅜*d*. to 9½*d*. and August-October at 9¼*d*. to 9⅜*d*. c.i.f.; white Singapore is 9¼*d*. spot, and for June-August shipment 9*d*. c.i.f. has been paid.

PIMENTO is slightly easier, spot offering at 2½*d*. per lb. for fair; it is believed prices have touched their lowest point.

Essential Oils

DEMAND for one or two articles has been better, but there is room for plenty of improvement in business. Sicilian oils are still unsettled, and while bergamot and orange has been in fair demand, lemon is dull. Orange seems firmer on the week. Geranium oils have again declined, and lemongrass and palmarosa are barely steady. Spearmint is a little cheaper since last quoted.

ANISE (STAR) is unchanged on the spot, with sellers at 2*s*. 3*d*. per lb. for "Red Ship." To come forward the price is 2*s*. 3*d*. c.i.f.

BAY.—West Indian distilled is unchanged at 15*s*. per lb. spot.

BERGAMOT is steadier on the spot, with sellers at from 22*s*. 6*d*. to 23*s*. 6*d*. per lb. for 37 to 39 l.a. To come forward quotations are higher, 23*s*. 6*d*. c.i.f. being about the average.

BOIS DE SIAM.—The importers have reduced their price on the spot to 5*s*. 6*d*. per lb.

CASSIA is obtainable at 3*s*. 11*d*. to 4*s*. per lb. on spot for 80 to 85 c.a. according to seller. To come forward from 3*s*. 7½*d*. to 3*s*. 8*d*. c.i.f. is quoted.

CEDARWOOD is quiet on the spot at 3*s*. per lb.; which can be shaded in some directions for a line.

CINNAMON.—Ceylon leaf is quiet and unchanged on the spot at from 4¼*d*. to 4½*d*. per oz.

CITRONELLA.—Business is reported at 1*s*. 3*d*. per lb. for Ceylon, which is still quoted, other sellers wanting up to 1*s*. 3½*d*. Java is unchanged at from 2*s*. 6*d*. to 2*s*. 8*d*. according to quantity.

CLOVE.—There is little incentive for English distillers to manufacture this oil at present owing to the cost of fuel, labour, etc., and the usual quotation, at from 5*s*. 3*d*. to 5*s*. 6*d*. per lb. as to seller, is below the economic cost of production. The spice has advanced.

EUCALYPTUS is offered by one importer at 2*s*. 3*d*. per lb. c.i.f. for 70 per cent. cineol and 1*s*. 11*d*. for 60 per cent. Spot is quoted at 1*s*. 10*d*. to 2*s*. for B.P. oils.

GERANIUM.—Bourbon is cheaper on the spot at from 15*s*. to 16*s*. per lb., according to holder. Algerian on the spot has also been reduced, with sellers at from 21*s*. to 24*s*. per lb.

GINGERGRASS.—"Insoluble" is nominal on spot at 11*s*. 6*d*. per lb. in pots.

LAVENDER.—Fine French oil, testing 36 to 38 per cent. esters, is obtainable at 25*s*. per lb. spot.

LEMON continues in small demand Some holders sell with difficulty at 3*s*. per lb. and from 2*s*. 11*d*. to 3*s*. 3*d*. is quoted variously. To come forward, irregular and higher prices are the rule, and, until spot stocks are reduced, they are not likely to induce buyers to come forward. From 3*s*. 4*d*. to 3*s*. 7*d*. c.i.f. is quoted.

LEMONGRASS.—Cochin is easier at 3*d*. to 3¼*d*. per oz. spot.

LIME.—Distilled on spot is unchanged at 2*s*. 10½*d*.

per lb. Hand-pressed is quoted at 21*s.*, but business within this figure could be done in some directions.

MINT.—Japanese dementholised Kobayashi-Suzuki is nominal at 4*s.* 3*d.* per lb. for spot.

ORANGE.—Sicilian sweet is scarce on the spot, and 12*s.* per lb. seems to be about the best quotation, up to 14*s.* being quoted. To come forward prices are higher, as much as 15*s.* c.i.f. being asked.

PALMAROSA is easier on the spot, with sellers of large pots at 15*s.* per lb.

PATCHOULI on the spot is unchanged at from 45*s.* to 50*s.* per lb. as to quantity.

PEPPERMINT.—American tin-oil is quoted at from 13*s.* to 13*s.* 6*d.* per lb. spot. Considerable quantities have been sold to Germany from London at about 12*s.* 6*d.* f.o.b., and small lots are probably still obtainable at this figure. To come forward the price is easier at 11*s.* 6*d.* to 12*s.* c.i.f.

PETITGRAIN.—Paraguayan is very quiet, and from 12*s.* 6*d.* to 13*s.* 6*d.* per lb. are about the spot values.

SPEARMINT is selling in small lots at 30*s.* per lb. spot, which is easier.

WINTERGREEN (SWEET BIRCH OIL).—Spot holders are quoting around 21*s.* per lb.

Pharmaceutical Chemicals

THERE is very little progress to report in the fine chemical trade this week, and quotations being made for the limited business coming through continue to vary to a large extent. Weak holders are still willing to cut their losses to make sales, this being particularly the case with phenacetin. Among the products which have been reduced in price are morphine, codeine, salicin, and strychnine salts, pure and methylated ethers, citric and tartaric acids. Salicylates are on the weak side; potassium permanganate is lower.

ACETANILIDE continues to be quoted at various figures from 1*s.* 4*d.* up to 1*s.* 8*d.*, with an average of about 1*s.* 6*d.* per lb.

ALOIN is unchanged at about 4*s.* 9*d.* per lb. with the market quiet.

AMIDOPYRIN continues quiet with values fairly steady; lowest quotation is about 21*s.* 6*d.* per lb.

APIOL is easier, makers offering at 34*s.* per lb.

ASPIRIN is quoted from 3*s.* to 3*s.* 3*d.* per lb. on a rather quiet market.

ATROPINE SULPHATE is steadier at about 22*s.* 6*d.* per oz.

BARBITONE is still being offered at 15*s.* per lb., but there is no great demand.

BENZOIC ACID continues steady at 2*s.* 3*d.* to 2*s.* 6*d.* per lb., according to quantity.

BENZONAPHTHOL is offering at various figures from 8*s.* per lb. upwards.

BETANAPHTHOL.—Resublimed continues quiet at 3*s.* 6*d.* per lb.

BROMIDES are still offering from fairly large stocks, but the demand is very limited. Potassium, crystals and granular, are still weak at about 9*d.* to 9½*d.* Ammonium continues slack, with values easy at 1*s.* to 1*s.* 1*d.* per lb., and sodium unchanged at 11*d.* to 1*s.* per lb. Buyers could possibly place orders at slightly lower figures.

BUTYL CHLORAL HYDRATE is offered at about 10*s.* 6*d.* per lb. on the spot.

CAFFEINE continues quite steady, with no offers under 21*s.* per lb. for pure.

CALCIUM LACTATE.—Quotations average about 2*s.* 3*d.* per lb.; there is only a small demand.

CHLORAL HYDRATE is perhaps a shade firmer this week, with nothing being offered under 4*s.* 9*d.* to 5*s.* per lb., duty paid.

CHRYSAROBIN is offered by makers at 8*s.* 6*d.* per lb., being easier.

CITRIC ACID.—B.P., crystals, have eased off slightly and the demand is not quite so good; current quotations vary from 2*s.* 3*d.* to 2*s.* 5*d.* per lb., less 5 per cent.

CODEINE AND SALTS.—Makers have reduced their prices by 2*s.* per oz., quoting the pure alkaloidal crystals and precipitated at 16*s.* per oz., phosphate at 12*s.*, hydrochloride and sulphate at 13*s.* per oz. These prices are for contracts of 5 kilos. or 175 oz., and for small lots 1*s.* per oz. more is asked.

CREAM OF TARTAR is unchanged at 135*s.* to 140*s.* per cwt. for 99 to 100 per cent. powder; there is a little better demand.

CREOSOTE.—B.P. continues neglected, with values weak at 4*s.* 9*d.* per lb.

CREOSOTE CARBONATE is still offered at 15*s.* per lb.; market is sluggish.

EMETINE HYDROCHLOR.—Makers' prices are lower, offering at 2*s.* 9*d.* per gram.

ETHERS.—The makers have reduced their prices of pure and methylated ethers as follows: 0.720 B.P. from pure ethylic alcohol, 9*s.* per lb. (a reduction of 2*d.* per lb.); from methylated alcohol 0.720 (purif.), 2*s.* 4½*d.* per lb. (a reduction of 1½*d.* per lb.). This is for 50-lb. lots and upwards.

GUAIACOL CARBONATE is still a dull market, with values unchanged at 15*s.* per lb.

HEXAMINE is offered, but not in great demand, from 4*s.* 9*d.* to 5*s.* 3*d.* per lb.

HYDROQUINONE is showing up a little easier, with quotations down to 5*s.* per lb.

MERCURIALS.—Current English makers' prices for lots below 1 cwt. are: hyd. bichlor., 4*s.* 8*d.*; chloride, 5*s.* 1*d.*; nit. oxide, 5*s.* 11*d.*; levig., 5*s.* 5*d.*; oxide flav., 5*s.* 3*d.*; præcip. alb., 5*s.* 6*d.*; sulph. alb., 3*s.* 9*d.*; sulph. nig., 4*s.* 3*d.* per lb. net.

METHYL SULPHONAL has experienced a slight decline, and parcels could no doubt be bought at a trifle under 20*s.* per lb.

MORPHINE SALTS.—Makers have reduced their prices by 6*d.* to 8*d.* per oz., quoting hydrochloride powder on a basis of 12*s.* and crystals 12*s.* 3*d.* per oz. Acetate is 12*s.*, bromide 15*s.*, meconate 15*s.*, sulphate 12*s.*, crystals 12*s.* 3*d.*, and neutral sulphate 15*s.* per oz. Alkaloid crystals is 15*s.* 3*d.* and precip. 15*s.* Morphine diacetyl. is 2*s.* cheaper at 19*s.*, diacetyl. hydrochloride is 18*s.*, and ethyl hydrochloride 19*s.* per oz.

PARAFORMALDEHYDE is fairly steady, but quiet, at about 3*s.* 9*d.* per lb.

PARALDEHYDE, although still neglected, is quite steady at 2*s.* to 2*s.* 2*d.* per lb.

PHENACETIN is very erratic, quotations varying between 6*s.* to 6*s.* 6*d.*, and even 7*s.*, per lb.; average is about 6*s.* 3*d.* Some people are anxious to clear stocks.

PHENAZONE in some cases is being offered as low as 8*s.* per lb., with an average of about 8*s.* 6*d.*; market is very unsteady. Actual sales were made as low as 7*s.* 9*d.*

PHENOLPHTHALEIN is still being offered at figures varying from 4*s.* to 5*s.* per lb., but is only in limited demand.

PODOPHYLLIN RESIN is a little easier, makers offering at 30*s.* per lb.

POTASSIUM IODIDE.—English makers' prices are from 14*s.* 9*d.* to 15*s.* 6*d.* for crystals or granular as to quantity.

POTASSIUM PERMANGANATE is now offered by dealers at the low figures of 1*s.* 2*d.* to 1*s.* 6*d.* per lb. for B.P. crystals; these quotations are being made on imported stuff; a fair business is being done.

POTASSIUM SULPHOGUAIACOLATE is a little steadier at 8*s.* to 8*s.* 6*d.* per lb.; market is still quiet.

QUININE ETHYL CARBONATE is now quoted slightly cheaper at 5*s.* 8*d.* per oz.

QUININE SULPHATE continues very scarce in second-hands and holders are asking 4*s.* per oz. Makers quote 1,000-oz. lots in 100-oz. tins at 4*s.* 1*d.* per oz.

RESORCIN is neglected, with values unchanged at about 8*s.* 6*d.* per lb. for recrystallised.

SALICIN.—Makers have reduced the prices to 20*s.* to 22*s.* per lb. according to quantity, the lower price being for 1-cwt. lots on contract.

SALICYLATES.—*Salicylic acid*, B.P., continues a dull market, and values are showing up weaker at 1*s.* 4*d.* to 1*s.* 5*d.* per lb. *Sodium salicylate* powder is dull and easy at 2*s.* 3*d.* per lb. Business could be done at cheaper rates.

SALOL continues neglected, with values weak at 3*s.* per lb.

SODIUM BENZOATE continues steady on a quiet market at 2*s.* 3*d.* to 2*s.* 6*d.* per lb.

SODIUM DIETHYLBARBITURATE, B.P., is unchanged at 24*s.* per lb.; market is still inactive.

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SODIUM SULPHITE.—Pure quality pea crystals is quoted by makers at about 25*l.* per ton.

STRYCHNINE.—Makers have reduced their prices by 1*s.* 3*d.* per oz., quoting B.P. crystals in bulk at 7*s.* 9*d.* and powder at 7*s.* 8*d.* The new prices for the salts are: Acetate 7*s.* 3*d.*, arsenate 7*s.* 1*d.*, bisulphate 6*s.* 7*d.*, cacodylate 12*s.* 5*d.*, citrate 7*s.* 2*d.*, hydroiodide 8*s.* 2*d.*, hydrobromide 7*s.* 4*d.*, hydrochlor. B.P. 7*s.*, hypophosph. 9*s.*, nitrate 6*s.* 11*d.*, phosphate 7*s.* 6*d*, sulphate 6*s.* 9*d.*, and valerianate 9*s.* 5*d.* per oz. net.

SULPHONAL is unchanged at 20*s.* per lb.; the market is still quiet.

TANNIC ACID.—*Leviss* continues dull, with values weak at 4*s.* 6*d.*

TARTAR EMETIC.—Crystals offer at 2*s.* 2*d.* per lb.

TARTARIC ACID.—With German makers cutting the price for forward delivery the tendency continues easy, with spot sellers at 1*s.* 5*d.* per lb., less 5 per cent. ex wharf London.

TERPIN HYDRATE is offered at the old figure of 3*s.* 6*d.* per lb., but is not being inquired for.

THYMOL continues stagnant, with values almost nominal at 21*s.* to 21*s.* 6*d.* per lb.

Heavy Chemicals

London, July 6

IT is too early yet to notice any appreciable change in the way of improvement in business after the termination of the miners' dispute last week, but there appears to be a little better tone, and no doubt a gradual improvement in trading will now set in. During the past week, however, business remained on a very limited scale, and buyers continue to have the advantage of the market, there still being a fair number of weak holders anxious to do business by undercutting their competitors.

ACETIC ACID continues rather quiet, with occasional inquiries coming through; a few small lots are still offering at 43*l.* to 45*l.* for 80 per cent. technical, and 55*l.* to 56*l.* for 98 per cent. glacial.

ACETONE.—British Government specification is now offered at 85*l.* to 90*l.* per ton, and a little inquiry is being received.

ALUM continues very stagnant, and values are weaker. Lump in casks is being offered by dealers at 18*l.* per ton f.o.b. nominal: there is no demand. Continental material of doubtful quality is quoted at 14*l.* per ton f.o.b. Makers are offering at 15*l.* 10*s.* for lump and 16*l.* 5*s.* for powder.

AMMONIUM SULPHATE.—The British Sulphate of Ammonia Federation has just issued its new price-list for sulphate of ammonia for home agricultural consumption for July and August delivery. The price is fixed at 14*l.* 6*s.* per ton basis 25¾ per cent. ammonia neutral quality, with allowances for lower grades, and if carriage paid in lots of 4 tons and upwards to consumer's nearest station or wharf in Great Britain.

ARSENIC is nominally unaltered. Offers are not being pressed, and white Cornish powder remains at about 45*l.* per ton delivered London or Liverpool. Grecian is offering at the same figure c.i.f. to arrive.

BARIUM CHLORIDE (98 to 100 per cent.) is dull and weak at 17*l.* per ton.

BLEACHING POWDER remains very quiet, with values easy at 18*l.* per ton for 35 to 37 per cent.

BORAX continues to drag. Spot quotations are: Commercial—Crystals 34*l.*, powder 35*l.*; B.P.—Crystals 38*l.*, powder, 39*l.* Makers are quoting at: Commercial—Crystals 34*l.*, powder 35*l.*; B.P.—Crystals 38*l.*, powder 39*l.* per ton.

BORIC ACID.—A few spot lots are offering at 74*s.* per cwt. for crystals and 76*s.* for powder, but are neglected. Makers are quoting unchanged at: Commercial—Crystals 69*l.*, powder 71*l.*; B.P.—Crystals 79*l.*, powder 83*l.* per ton. The market is still dull.

COPPER SULPHATE is very dull, but the tone is perhaps a shade steadier under the influence of the recent sharp rally in the price of rough bar copper. Comparatively low rates were reported to have been accepted in some quarters late last week down to 30*l.* per ton f.o.b. for casks for export and 29*l.* per ton delivered to home consumers. Terms are now about 30*l.* to 31*l.* f.o.b., there being continuous active competition in that direction.

COPPERAS.—Green crystals continue inert, with values nominal at 5*l.* 15*s.* per ton f.o.b.

EPSOM SALT is still neglected, with values showing up slightly easier at 8*l.* to 9*l.* for commercial quality in single bags; pharmaceutical quality is unchanged at 10*l.* to 10*l.* 10*s.*, with the market still dull.

FORMALDEHYDE is now offering on the spot in small lots at 95*l.* per ton for 40 per cent., but is not being taken up.

LEAD ACETATE continues quite lifeless, with values nominal at 50*l.* for brown broken and 55*l.* for white crystals, per ton.

LIME ACETATE is stagnant. Continental material is offering at very low figures, but is not moving. American 80 per cent. grey quoted at about 15*l.* per ton; no demand.

LITHOPONE continues to move in limited quantities, with values well maintained. Quotations are now round about 31*l.* for 30 per cent. Continental red seal, and 33*l.* for light-resisting, casks free.

NICKEL SULPHATE continues to be offered by makers at the unchanged figures of: Export—single salts 57*l.*, double salts 59*l.*; Home trade—single salts 58*l.*, double salts 60*l.*—per ton, less 2½ per cent. delivered. Demand is slow.

OXALIC ACID is perhaps a shade firmer this week at 9½*d.* to 10*d.* per lb.

POTASH CAUSTIC is very weak and the market unusually quiet. It can now be obtained as low as 38*l.* per ton for 88 to 92 per cent. material in iron drums. Limited stocks held. Makers continue to offer at 33*l.*

POTASSIUM BICHROMATE is a little firmer at about 10*d.* per lb. Makers are also offering at this figure; in limited demand only.

POTASSIUM CARBONATE (90 to 92 per cent.) is offered by makers and dealers at about 35*l.* per ton, but is not in much demand.

POTASSIUM CHLORATE.—Crystals and powder is still quoted by makers at 5*d.* per lb. A few lots are also offered by dealers at this figure. Market is still quiet.

POTASSIUM NITRATE.—Refined material is quoted at about 55*l.* per ton from dealers.

POTASSIUM PERMANGANATE.—Commercial quality is now quoted by makers at 1*s.* 6*d.* per lb. Dealers continue to do a fair business in imported material from 1*s.* 2*d.* per lb. upwards.

POTASSIUM PRUSSIATE is quoted by makers unchanged at 1*s.* 2*d.* per lb. for yellow and 2*s.* 3*d.* for red, spot lots also offering at these figures. Demand is poor.

POTASSIUM SULPHATE is unchanged at 20*l.* per ton for 90 per cent. ex ship.

SODA ASH (58 per cent. light alkali) continues slack, with makers' offers unchanged at 8*l.* 10*s.* per ton for home trade only and 10*l.* 5*s.* for export. Some spot parcels in dealers' hands are quoted at 9*l.* 10*s.* to 10*l.* per ton f.o.b. in single bags.

SODA CAUSTIC is offered from second-hands at 22*l.* 10*s.* to 23*l.* per ton f.o.b., but the demand is still poor. Makers are quoting 26*l.* 15*s.* per ton for 76 to 77 per cent. material in large drums f.o.r.; 24*l.* 10*s.* for 70 to 72 per cent. for home trade only.

SODA CHLORATE is now quoted by makers at 4*d.* per lb. Dealers are also offering at this figure. Demand is far from good.

SODA CRYSTALS are quoted unchanged by makers at 7*l.* per ton in bags ex works or station, small spot lots in dealers' hands ex store also offering at the same figures; in very moderate demand.

SODIUM BICARBONATE.—Supplies are short, but the makers hope to resume production almost immediately.

SODIUM HYPOSULPHITE.—Photographic quality is quoted by makers at 24*l.* per ton, and commercial quality (home trade only) at 17*l.* Dealers are offering a few lots on spot at about 23*l.* to 24*l.* per ton, but the demand has fallen off and prices show signs of weakening. Continental material is offering very cheaply.

SODIUM NITRATE continues to be quoted at 18*l.* 10*s.* per ton for 90 per cent. refined material f.o.r. Liverpool. Market is still slow.

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SODIUM NITRITE is weak and quiet, with prices easy at about 42*l.* per ton.

SODIUM PRUSSIATE is still quoted by makers at 7*d.* per lb.; limited spot parcels are quoted at 6½*d.* to 7*d.* Demand is poor.

SODIUM SULPHIDE is quoted by makers at last week's reduced figure of 27*l.* per ton for 60 to 65 per cent. conc. in casks. Dealers are offering 60 to 62 per cent. solid at about 24*l.* per ton on the spot; only occasional small business being done.

SODIUM SULPHITE.—Anhydrous continues stagnant, with values nominal at 28*l.* per ton; commercial crystals quoted by makers at the unchanged figure of 12*l.* 10*s.* per ton for home trade only. (See also "Pharmaceutical Chemicals.")

ZINC ASHES continue stagnant, with values nominal at 6*l.* per ton f.o.b., basis 70 per cent.

German Drug and Chemical Markets

THE market report, dated July 1, of a leading Hamburg wholesale drug-house introduces its quotations with the following reflections on the situation: After signing the London ultimatum discussions are now taking place regarding the steps which led to this act. In spite of all theoretical optimism utter confusion reigns as to the practical possibility of meeting the enormous burden of debt undertaken. Gradually the masses are beginning to realise the extent of these intolerable burdens, and next year they will fully grasp by practical experience what at present is to them mere hearsay. An examination of all the discussions bearing on the debts incurred leads to the conclusion that it is an imperative necessity to export far in excess of what is imported, but how to achieve this end remains an unsolved riddle as long as opponents continue to place difficulties in the way of any attempt at improving German trade. A surplus of empty trucks, compared with the former shortage of trucks in Germany, decline in the world freights, unused ships' space, sinking prices for ships, shipping firms on the verge of bankruptcy, and shipbuilding firms closing down on the other side, are evident signs of the small volume of exchange of goods between nations. An improvement in the trade of the world, and consequently in that of all the ailing national industries, is only possible when the spirit of national hatred and of opposition to trading will be replaced by the recognition of the fact that it is necessary for all nations to work together harmoniously. To achieve this end it is first of all imperative that the Parliaments, the State, and municipal authorities should deploy all their energies to relieve the people of their hardship instead of artificially promoting division, indulging in pettifogging details, and in mere rhetoric. The retention of our immaculate (*sic*) black, white and red symbol, the protection of Holy Week, more appreciation of the crying needs of the Upper Silesian population, with their effects on German economic life, are to all a matter of greater import than so many useless prolonged rhetoric combats without point, and resolutions written on blotting-paper. The hard times in which we live, with all their gravity, stand in no relation to the noisy amusements indulged in, to the importation of new dances, and to the record turnovers at the totalisators. The effect is once more reflected in the depreciation of the German currency. The absence of large transactions in the drug and chemical market has left prices practically unchanged. The following quotations are given in marks for 1 kilo.:

ACETIC ACID (80 per cent.).—The demand has improved at m.14, and for export m.10.25, inclusive of carboys.

AGAR-AGAR has been recently in good demand, and considerable transactions have taken place; market is showing a firmer tendency at m.74 for bales and m.80 for broken bulk.

AMMONIUM CHLORIDE (white, 98/100 per cent.) is being sold in larger amounts at m.6, and for export m.6.50. A slightly redder article is cheaper at m.4.50.

BALSAM PERU.—Genuine has been sold only in small amounts at m.280. Artificial has changed hands at m.130.

BALSAM TOLU is obtainable in cases at m.46.

BENZALDEHYDE (almost free from chlorine, for foodstuffs).—Manufacturers have been in the market as purchasers, therefore developments are expected. Price is m.40, and for export m.45.

BENZOIC ACID and SODIUM BENZOATE have declined to m.35; no important transactions have taken place.

CAFFEINE (pure) is not in demand at the lower figure of m.600. Caffeine salts are lower at m.375, without being in demand.

CITRIC ACID is in good demand at the firm price of m.70 for home and for export, while supplies are rather scanty.

COUMARIN has declined to m.250, and is not in demand.

CREAM OF TARTAR (98/100 per cent.).—No large transactions have taken place. Small business is being done at m.26; for export, m.27.50.

DEXTRIN has remained stationary for a long time at m.9 for white and m.8.50 for yellow, and is in good demand.

GENTIAN ROOT is in better demand at m.12.

GLYCERIN.—Large selling offers have led to a drop in price to m.25.50.

HELIOTROPINE has been neglected at m.300.

MILK-SUGAR, although supplies are scarce, has been in greater demand at m.24, and for export m.27.

SALICYLIC ACID is in greater demand at m.33, and m.35 for export.

SANDALWOOD OIL.—East Indian is unchanged at m.1,050, while West Indian oil has declined to m.425.

SODIUM SALICYLATE remains scarce at m.55.

STRAMONIUM LEAVES have declined to m.19.

TARTARIC ACID.—In spite of the change in the weather there has been no decrease in the regular orders coming in, at m.35 for powder and granular, and m.37 for crystals. For export an extra charge of m.1 per kilo. is made.

VANILLIN has been sold in satisfactory amounts at m.825, and for export at m.815.

German Reparation Levy

AN official statement has been issued by the German Ministry of Finance to the effect that the German Government will reimburse to German exporters, as from May 12 last, the amount of the 26 per cent. duty paid by British importers on German goods imported into this country. The Foreign Office states that it is understood that, upon the production of a British certificate showing the amount retained by the British authorities and on receipt of the necessary details from the exporter, payment will be made in German currency at the rate of exchange which prevailed on the day when the British authorities issued the certificate.

Norwegian Cod-liver Oil

IN an article dealing with the above subject which appeared in "Bergens Tidende" (May 20, 1921) it is stated that the price of cod-liver oil in Bergen has been subject to considerable fluctuations. The highest price was reached towards the end of March last year, when it stood at 300 kroner, while the lowest quotation was registered on April 21 of the present year, the price being 60 kroner, while in February the new cod-liver oil obtained from this year's catch was offered at 130 kroner. This year's catch of cod yielded a total of 5,000,000 litres of medicinal cod-liver oil, in addition to which there remained on hand between three and four million litres of oil of last year's production. The two amounts represented a quantity far in excess of the demand, and in view of the very evident difficulty in disposing of such a large amount of cod-liver oil very keen competition set in among exporters, especially during the past month or so, in order to secure the greatest possible share in the business that was to be done. In order to put a stop to several practices which had been adopted, and particularly to prevent further attempts to engage in methods which were bound to have an adverse effect on the Norwegian export trade in cod-liver oil, the fishing group of the Chamber of Commerce of Bergen took up the matter officially. This step was largely the result of the action undertaken by one Norwegian firm, which was offering cod-liver oil for export with a falling clause. Cod-liver oil is generally sold in spring, delivery taking place in the autumn. The scheme proposed by this firm enabled the buyer to profit from any alteration in the price in the interval between purchase and delivery, since they were prepared to accept payment from the buyer at the lowest price—should the price fall in the meantime—while should a rise in price take place the cod-liver oil ordered would be delivered at the price agreed upon at the time of placing the order. Other firms were unable to compete on the same basis, while being unwilling to adopt the same scheme, and consequently a big fall in prices is expected. The other exporters are endeavouring to stop this scheme on national grounds, as it will entail less money coming into the country. The Bergen Chamber of Commerce has taken up the matter, and is endeavouring to obtain an explanation of the reasons which induced the firm in question to adopt this scheme, but no reply has been received.

A COCAINE CASE.—A recent prosecution under the Dangerous Drugs Act resulted in the condemnation of M. Roger Buisine, a Parisian pharmacist, to two years' imprisonment. The Tenth Criminal Court also ordered the closing of his pharmacy, which is situated in Rue Balagny.

Index Folio 61

Correspondence

The London Retail Price List

SIR,—Unforeseen circumstances have prevented the official issue of the London Chemists' Retail Price List for July. The changes in prices from the list for the month of June will be circulated to subscribers and published in the trade journals. Meanwhile we ask the indulgence of the trade, so that we can reset the enlarged and improved list that will be ready for early August issue.

Yours faithfully,
G. F. WEISS, Secretary.

180 Philip Lane, London, N. 15.

Photographic Service

SIR,—Time is money, but one is inclined to think that a "South Coast Pharmacist" (*C. & D.*, July 2, p. 69) is carrying the precept rather far. It is possible to be penny wise and pound foolish (although, of course, each one is entitled to his own opinion). The fact that the majority of those who ask the chemist to fit the film in the camera are amateurs suggests the possibility of much extra business being transferred to another dealer. To be consistent, according to a "South Coast Pharmacist's" idea we should make a charge to every customer for the time required to display goods or for the time occupied in "persuasive eloquence" in order to effect a sale. Such a policy would, of course, be fatal to business.

Yours truly,
SCOTUS (4/7).

SIR,—"A South Coast Pharmacist" (*C. & D.*, July 2, p. 69) states that he makes a charge of a penny for inserting films in cameras for customers. Some chemists also make a charge for the use of the dark room when a customer wishes to change his plates, but I think such charges are a mistake from a business point of view. The amount is so small and the service so trifling that to make a charge for it savours of a policy of "grab-all," and is apt to give the customer a prejudiced idea of the chemist's methods, whereas any little time that may be taken up is frequently worth the while as an advertisement. Some time ago, when travelling in Switzerland, I went into a shop to change my plates, and was shown into a room with several small compartments, something like telephone-boxes, but light-tight, each with a bench and white and ruby electric light made for the purpose of plate-changing. On coming out I inquired the charge and was told "Nothing." However, I said that as I had bought no plates, and was only travelling through the town, I should prefer to pay something for the convenience, if only a trifle, but they would make no charge. I then informed the proprietor that I was an English pharmacist, and that in England a charge was occasionally made. He was emphatic in his opinion that it was bad business policy, as he had secured many customers who had at first only made use of his dark rooms, and he considered that the cost of fitting up had been well repaid. After all, a pharmacist expects to help and advise his customers; if a man buys a poppy-head and asks how to make a fomentation, the chemist does not charge him extra for the information: he gives it as part of his business service, so why should he not do so in the photographic department as well? A customer satisfied is a customer secured. From time to time we meet the person who makes use of every possible opportunity to get something for nothing, but we can afford to overlook such people while suiting the majority.

Yours faithfully,
PHOTOGRAPHIQUE (2/21).

The Dangerous Drugs Act Regulations

SIR,—Having carefully read the Editorial article in the *C. & D.*, July 2, p. 54, may we be allowed to state why we still favour the system of keeping the records as suggested in our letter on p. 68? We had already considered the alternative book which may be kept by chemists "for the purpose of references . . . in lieu of keeping the register . . . of drugs sold or supplied . . .," and did not recommend such, as it obviously does not dispense with the necessity of keeping a register, in the prescribed form, of "obtaining or possession" of the drugs. Using an index book involves an extra book (with divisions for each drug) to be always kept at hand, whereas "the references under the appropriate dates to the entries in the 'Poisons Book' or 'Prescription Book'" can be made in our register on disposal page, dates in the date column, and the reference to Poisons Book or Prescription Book in column "Where sale is on prescription, etc.," ignoring the five intermediate columns. These columns will be there, however, for use in any case that may be necessary, and both the "Obtaining and Possession" register and the index to the Poisons Book or Prescription Book are in the same book, and most easily produced when called for by the proper authority.

Yours faithfully,
Exeter. JAMES TOWNSEND & SONS.

Examination Passes

SIR,—"Xrayser II." is wrong when he says that "Truth's" accusation cannot be disproved. It can. But I leave your readers to judge for themselves whether the actual facts are creditable to the Pharmaceutical Society or not. "Truth" says only 33 per cent. were admitted to the Register, and 67 per cent. were slain in the interests of those already in business. Here's the answer in percentage figures from the *C. & D.*, June 18, 1903, p. 57:

	1893	1894	1895-96	1897-98	1899	1901	1902
Passes ...	39	37	35	32	30	28	30
Failures ...	61	63	65	68	70	72	70

This has been going on for twenty years, so that "Truth's" 67 per cent. is nothing new. Chemists in business are not the only examiners; for over twenty years there have been analysts, analytical chemists, wholesalers, and medical school professors as examiners, but the results in failures don't vary much. For thirty years chemists in business have complained that the high percentage of failures has made the supply of good men dear and bad. And examiners like D. B. Dott and Thomas Maben have criticised the whole system of examination as utterly wrong for the last twenty-five years. "The examination is a poor affair," said Cowley of Liverpool nearly twenty years ago. The *C. & D.*, 1903, p. 847, stated:

> A large number of men recognise that the examination does not fit them for the work they have to do in life, so they continue in our trade without the certificate. They are a growing number, and their increase is a serious problem. We have, we think, outrun the constable in trying to force a standard on the whole trade, only really applicable to a part.

I used to argue about the alleged high standard. It was not really a high standard and is not now. It was simply a lot of old and out-of-date tests with ancient axioms and hypotheses, which did not do any great harm up to about 1895, because up to then apprenticeship was on lines more in keeping with the examination and more in line with daily work, and the fee was 5*l.* 5*s.* Whereas since 1895, as Sir Wm. Hodgson, M.D. (Vice-Chairman, Cheshire County Council), states:

> The methods of medication have entirely altered, yet many chemists do not seem to be aware of the fact.

Mr. Herbert Skinner, when a candidate for election to the Council of the Pharmaceutical Society, said (*C. & D.*, May 6, 1916, p. 42):

> We are sending out men at the present time on an antiquated syllabus, and have altogether neglected the changes that have come over our medical methods.

Since 1916 the only changes in our examination have been (1) higher fees, 12*l.* 12*s.*, (2) and the examination divided into two parts. The old syllabus sticks in the mud. It pleases the vanity of a few, because its very unsuitability seems to fill the heads of certain types of students with wrong ideas; and some masters seem willing to pay for the services of such in order to keep up a little longer the old mystery by pretending that certain medicines need a long time to prepare, whereas they are often bought ready-made and could be handed out by a girl of eighteen with two years' experience. The wizard

working away in a corner is there wasting time with a purpose. And it works—because the gullibility of a section of the public seems as great as ever, especially in England, where a favourite expression is "He (or she) enjoys bad health," meaning that they are in ailing health. But it tickles their vanity to think that their dope took a solid hour to prepare, while their neighbour got his (or hers) in five minutes. This is on the same line as their morbid and time-wasting idea to force the doctor to have them stripped and examined bodily, whether they are merely bilious after long cramming with food, or in the last stages of consumption or old age. "Truth" need not worry! The Pharmaceutical Society won't alter unless the Privy Council comes down on them, which seems unlikely. In any case, 75 per cent. of the Army men don't intend to stick to our trade, whether they qualify or not. But we all know that the ancient syllabus is more often unfair to men of experience who cannot cram than to those who can cram. The 75 per cent. who won't continue in our trade is well within the mark. Fifty per cent. were not in the retail at all, but more likely in the wholesale, and have only managed to get their retail experience in doctors' surgeries at nights and such-like in order to get a nine months' college course. Even the 25 per cent. retailers hate it like poison and leave it at the first chance. Why, in 1915, out of the ten men who had won the Fairchild College Scholarship six were in wholesale, one a doctor, one emigrated, two youngest in retail, and one of the two last named was killed in France. That's the ten years' record. I should like to hear "Truth" on it.

Yours truly,
JAY MACK.

An Army Pharmaceutical Service Corps

SIR,—*C. & D.* readers who served in the R.A.M.C. during the war must have been interested in Major Peck's statement at the British Pharmaceutical Conference with reference to the improvement of pharmacy in our Army. Personally I view with little satisfaction the proposal to establish a corps of pharmacists separate from the medical service. Major Peck states that such a corps exists in some Continental armies. I should be glad to know which. In the year 1919 and last year a series of articles on pharmacy in the French, Belgian, Italian, Russian, and Dutch armies appeared in the *C. & D.* I can find no mention of a separate corps of pharmacists in any of these armies. In all of them the pharmaceutical officer is a member of the ordinary medical, or rather "sanitary," service of his army. I may mention that on the Continent the word "sanitary" is used in a different sense from ours. Here it is used in connection with preventive medicine and associated popularly with drains; but in all foreign armies, including that of the United States of America, it is used in the sense of our word "medical" and applied to the field organisations similar to our ambulances, ambulance columns, casualty clearing stations, and the like. In the French army, which is the one I know best, as I served in and with it for a considerable portion of the war, the *pharmacien* is as much an *officier de l'armée française* as the *médecin*, but he does not belong to a different service. Both *pharmacien* and *médecin* are members of the Service de Santé. In most Continental armies we only find pharmacists in hospitals at the base or on the lines of communication. They do not serve with formations similar to our field ambulances, which form part of fighting formations such as divisions and army corps, and were regarded as "fighting troops" throughout the Great War. In the French army, however, it is different, as the *pharmacien* serves with the Groupes des Brancardiers Divisionnaires, which is the divisional bearer company, and collects the wounded from the regimental stretcher-bearers close up to the firing-line. The *pharmacien* not only acts as chief dispenser and medical storekeeper to the unit, but he has, in addition, the following three special functions—viz.:

1. Analyst to the division. He inspects and analyses all water and food supplies. At present we have no such person with a British division.

2. Keeper of disinfectants for the division. In our Army these are kept by the Royal Army Service Corps, and are *not* a medical supply.

3. Divisional gas officer. The *pharmacien* of the G.B.D. (the French are as fond of using initials instead of full names for formations as we are) is instructor in gas defence, and keeps the supply of gas-masks for the division. We used to have a special combatant officer told off for this job in divisions in France.

It will be seen that in the French army the pharmacist officer is employed right up to the front line. His status is quite as good as that of his brother medico. It might be different if he belonged to another and subordinate corps, so I hope Major Peck's idea of divorcing pharmacy from medicine in the Army will not materialise, but I sincerely hope that his "dream" as to giving it the position in our Army which it holds on the Continent may do so. The trouble is that it is not possible to give a calling in the Army a better standing than it has outside. The Army doctor has steadily gone up in military estimation, but only *pari passu* with the increasing power and influence of the civil medical profession. Is pharmacy advancing in the same way?—Yours sincerely,

MILES MEDICUS (4/7).

Dispensing Difficulties and Notes

Darkening Mixture

SIR,—The following "script" was handed in to be dispensed and was repeated. The patient complained that the colour was different.

Vin. ipecac.	ʒj.
Tr. camph. co.	ʒij.
Vin. antim.	ʒj.
Sp. ether. nit.	ʒvj.
Glyc. ac. carbol.	ʒj.
Aq. ad	℥vj.

We prepared a bottle of the mixture and kept it under observation. When first dispensed it is water-white, but develops a slight brown colour in fifteen minutes. On keeping, the colour goes very dark brown, with a slight blackish deposit.

Yours truly,
H. R. (21/3).

[The darkening of the mixture is due to the spirit of nitrous ether and carbolic acid in the glycerin of carbolic acid. When spirit of nitrous ether is present in a mixture with much water it is hydrolised with production of nitrous acid, which, in contact with carbolic acid, produces dark-coloured nitroso-phenol. This separates ultimately as a granular sediment.]

A Difficult Mixture

SIR,—Kindly let me know if it is possible to make a satisfactory mixture from the following prescription:

Sodii salicyl.	gr.xv.
Calcii brom.	gr.x.
Phenazoni	gr.x.
Sp. amm. arom.	♏x.
Tr. aurantii	♏x.
Aq. chlorof.	ʒvj.

I have tried several methods, and have come to the conclusion that it is a hopeless case.

Yours faithfully,
D. C. (15/3).

[At first trial this does appear to be a pretty hopeless case. The method of compounding, however, sometimes produces results which enable such a mixture to be turned out satisfactorily. It seems to us that you have written quantities for a smaller volume than 6 oz. We are assuming the quantities to be for one dose, and presumably to be contained in 1 oz. A workable mixture can be produced by the following procedure: Mix the aromatic spirit of ammonia, tincture of orange, and chloroform water, and, having placed the salts together in a mortar, add to them gradually the mixed liquids, triturating steadily during the operation. In this way the precipitate is obtained in a fine state of division—light enough to diffuse when shaken and permit of equal dosage being obtained when poured out. The precipitate is mainly, if not entirely, calcium salicylate. The addition of 2 grains of tragacanth, triturated with the salts before the liquid is added, secures finer division of the precipitate and aids its suspension when the mixture is completed.]

Index Folio 63

Legal Queries

J. G. D. (28/6).—As in the medical profession, it is the titles that are protected in the veterinary profession. Persons assuming the titles mentioned in the Act are liable to penalties. Unregistered persons cannot sue in the Courts for payment for professional attendance.

Alpha (21/6).—Veterinary prescriptions containing tinct. opii 33⅓ per cent., pulv. opii 2 per cent. and 4 per cent. are within the Dangerous Drugs Act, and, broadly speaking, can only be sold on the prescription of a medical practitioner or veterinary surgeon. A preparation containing ½ per cent. of pulv. opii is outside the Dangerous Drugs Act.

Juror (4/7) asks at what age a person is entitled to claim exemption from jury service, and what steps he should take to have his name removed from the list. [Previous to the passing of the Juries Act, 1918, a person of the age of sixty was exempt from jury service; but by that Act the age was raised to sixty-five. The Act will continue in force until six months after "the termination of the war." Application for the removal of a name from the list should be made to the local overseers of the poor.]

Balbus (21/6) gives the following figures of the trading profits of his business: Years to January 21, 1913, 326*l.* 9*s.* 7*d.*; 1914, 680*l.* 4*s.* 4*d.*; 1915, 722*l.* 2*s.* 4*d.*; period January 21, 1915, to March 31, 1916, 857*l.* 2*s.* 5*d.*; years to March 31, 1917, 682*l.* 0*s.* 6*d.*; 1918, 1,128*l.* 5*s.*; 1919, gross 1,635*l.* 8*s.*, less E.P.D. 67*l.* 8*s.*, net 1,568*l.*; 1920, gross 1,822*l.* 7*s.* 8*d.*, less E.P.D. 747*l.* 12*s.* 4*d.*, net 1,074*l.* 15*s.* 4*d.*; 1921 gross profit, 2,089*l.* 16*s.* 11*d.* On these he asks if the amounts already paid for excess profits duty are correct, and how much is due from him under this head of tax for the last two years. He also wishes to know what should be his total business income tax for last year (of which the second instalment is due on July 1, 1921), and what income he should fill in on the income-tax form for the current tax year. He is married, has a wife and three children, with a fourth child born on June 15 of this year, and he pays an annual insurance premium of 10*l.* [As to the E.P.D., it is not possible to calculate this, since the pre-war standard of profits is not given by "Balbus," nor is any mention made of capital taken into the business since 1915, which, on the figures, would appear to have happened. An addition for interest on such capital has to be made to the pre-war standard of profits. The total business income for last year is one-third (1,128 + 1,568 + 1,074), that is 1,256*l.*; from this has to be deducted one-tenth for earned income allowance, which leaves 1,130*l.*; then further deductions of 225*l.* for self and wife and 90*l.* for children, which leaves 815*l.*; which is chargeable, as to 225*l.* at 3*s.* and as to 590*l.* at 6*s.*, giving gross tax of 210*l.* 15*s.*, from which the insurance allowance has to be made of 10*l.* at 4*s.* 6*d.*, that is 2*l.* 5*s.*, the net tax for last year being thus 208*l.* 10*s.*, of which half is now payable on July 1, 1921. The taxable income for this year may be ascertained in the same way when the E.P.D. now due is deducted from 2,090*l.* The average will then be one-third (1,568 + 1,074 + [2,090 − E.P.D.]). No allowance is made in current tax year for the fourth child.]

Miscellaneous Inquiries

When samples are sent particulars should be supplied to us as to their origin, what they are, what they are used for and how. We do not undertake to analyse and report upon proprietary articles nor to publish supposed formulas for them

H. O. H. (22/6).—The Drug Index Number for April 1918 was 311.6.

A. G. (21/6).—The numbers of The Chemist and Druggist which contained articles on Minor Botany are out of print, but you could probably, by advertising, obtain the first volume for 1914, in which most of the articles were printed.

Index Folio 64

A. F. (14/6).—Worms in Furniture.—See *C. & D.*, October 30, 1920, p. 96.

P. & Co. (27/6).—(1) Artificial Raspberry Essence:

Powdered orris	24 oz.
Rectified spirit	5 pints
Water	2 pints

Macerate seven days and filter. To each pint add:

Butyric ether	4 dr.
Acetic ether	1 dr.
Amylo-acetic ether	½ dr.
Oil of orris	1 dr.
Rectified spirit	2 oz.
Chloroform	½ dr.
Colour	A sufficiency

The colouring for the essence is made from:

Croceine scarlet	1 oz.
Boiling water	20 oz.

Dissolve.

(2) Artificial Strawberry Essence:

Oil of wintergreen	1 oz.
Acetic ether	8 oz.
Butyric ether	5 oz.
Nitrous ether	1 oz.
Glycerin	2 oz.

To dilute spirit 18 oz., add 2 oz. of the above essence and colour red.

J. B. (14/6).—Honey and Flowers.—See *C. & D.*, May 31, 1919, p. 72.

H. B. F. (20/6).—(1) Rat and Mouse Paste free of scheduled poisons:

Barium carbonate	4 oz.
Biscuit meal	4 oz.
Oil of aniseed	5 drops.

Mix with fat to a paste. For use, pieces of the size of a hazel nut are laid in the runs.

A paste made of equal parts of barium carbonate and tallow is also employed for the same purpose, mixed with dripping to form a thick paste.

(2) Lemonade Powder with Saccharin.—Professor John Attfield's formula, published many years ago, is as follows:

A.	*B.*
Sodium bicarbonate 300 gr.	Tartaric acid ... 350 gr.
Saccharin ... ... 4 gr.	
Oil of lemon ... 15 min.	
Mix and divide into twelve powders (in blue paper).	Divide into twelve powders (in white paper).

The directions should state that the contents of the blue paper are first to be dissolved in a tumberful of water and the contents of the white powder added.

Retrospect of Fifty Years Ago

Reprinted from "The Chemist and Druggist," July 15, 1871

A Forgotten Struggle

At the last meeting of the Pharmaceutical Council, the question of the admission of reporters was discussed. The result was that a resolution was passed to admit one for the "Pharmaceutical Journal," but to refuse admission to the representatives of other journals; in other words, to keep out The Chemist and Druggist. A Committee of Supervision was appointed to edit the reports, and expunge from them all dangerous or undignified remarks, and with power, we presume, to suppress an entire discussion if this should seem desirable. Of course the exclusion of outside reporters is a corollary to the appointment of this committee, for no independent journal would admit reports of meetings tinkered together in this manner. Such a curious instance of the gingerly way in which respectable corporations descend to the platform of modern vulgarity is at least interesting. Everyone distinctly understands that this compromise is only meant to break the fall which must inevitably come. It requires a little dexterity to come downstairs gracefully.

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"smartest window in the street."

If you wanted them in wood they would cost you a great deal more and look no better. At short range no one will distinguish them from the finest oak, whilst the price puts them within the reach of the most careful.

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To those who send in a postcard with "*Pedestal*" thereon and sign their name and give address we will send them for

20/- THE SET

Carriage Paid.

5 × 7" @ 1/- each
4 × 9" @ 1/6 each
2 × 12" @ 2/- each
2 × 15" @ 2/6 each

State whether 'pale,' 'fumed' or 'dark oak' shade is required. Don't forget "Pedestal" on a postcard is the word, and it brings you the best bargain in **show stands** you have ever had in your business career.

NOTICE.
Literally hundreds of chemists availed themselves of this offer that we had the greatest difficulty in dealing with the orders, also scores have written expressing themselves as highly delighted with their purchase. There are still numerous chemists who did not send for the trial set, and we repeat it for their especial benefit, ORDERS WILL BE EXECUTED IN STRICT ROTATION.

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of people see this ad. weekly, and each one is a prospective buyer. Some live almost next door to you, thus it pays to show Zepto and Cold Cream prominently now. If you do not, then the person who reads the ad. in the morning will forget to call, which means ***you*** lose the sale and the man showing Zepto gets it. Remind this huge number of the fact that you have stocks and thus make the money expended on the appropriation remunerative to both to the utmost. In other words, co-operate—it pays.

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No. 2.

ORIGINAL GENUINE EFCO E. FOUGERA & CO. INC. IMPORTERS N.Y.

In the United States

E. FOUGERA & CO., Inc.

Est. 1849

is recognized by the drug trade as the means whereby the best of British and French medicinal and pharmaceutical preparations are placed at its disposal

BRITISH Manufacturers who contemplate placing their products on the American market should communicate with us. We have the necessary facilities plus a thorough knowledge and wide experience in merchandising medicinal and pharmaceutical preparations

CHEMICALS We solicit inquiries for chemical products indigenous to the United States; also your offerings on English pharmaceutical chemicals, industrial and agricultural products

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TESTOGAN
FOR MEN.

THELYGAN
FOR WOMEN.

A Proven Efficient Remedy
(Formula of Dr. Iwan Bloch)

INDICATED IN

Impotence and Insufficiency of the Hormones.

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English Distributors.

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CAVENDISH CHEMICAL CORPORATION,
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Manufacturing Chemists,

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SPECIALTIES—

CAMPHOR
ARSENIC
INSECT FLOWERS
CHILLIES
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On all of these items we can offer contracts or single shipments at all times.

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ESSENTIAL OILS COLOURS (ANILINE)

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Chemical and Pharmaceutical Products, Drugs and Herbs,

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HYDROGEN PEROXIDE 12 vol., 20 ,, 100 ,, } for Export.

ETHERS
CHLOROFORM
CHLORAL HYDRATE
COLLODIONS
SPIRITS—ELIXIRS—ALCOHOLIC TINCTURES
PHARMACEUTICAL EXTRACTS
OF ALL KINDS
METALLINE
Metallic solution for capsuling vials, bottles, etc.
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Sugar of Milk.

"THE BEST"

HOLLANDSCHE MELKSUIKERFABRIEK

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A Window Display
that sells Nujol

THIS Window Display will identify your business with Nujol. People know about Nujol—they know what its virtues are. All that you have to do is to show them that you have it. Nujol is a profit-builder. It's not the first sale of an article that brings the profit, but successive sales. Send to-day for the Window Display Material, then watch your Sales increase.

ANGLO-AMERICAN OIL CO., LTD.
MINERVA HOUSE, BEVIS MARKS - - LONDON, E.C. 3.

Antiphlogistine

TRADE MARK

REVISED SIZES

When present stocks are exhausted the 7-oz. (2/6) size will be discontinued. The Revised Schedule of Sizes and Prices will be

IN EFFECT JULY 1, 1921

SIZE		M.R.P.	M.W.P.
5 - oz.	TRIAL SIZE	2/-	18/-
10½ ,,	Small ,,	3/-	27/-
17½ ,,	Medium ,,	5/-	45/-
34½ ,,	LARGE ,,	8/6	76/6
5-lb.	Hospital ,,	17/6	157/6

FOR QUANTITY TERMS write to the Sole Agent:

J. F. MURPHY, 41 St. Ann's Road, LONDON, E. 3.

A Line with a "Steady-Selling" Reputation

Thousands of shrewd chemists have realised the immense selling advantages of stocking a line which is backed whole-heartedly by the Medical Profession, and are doing big trade with

Sphagnol

SOAPS & OINTMENT

Sphagnol Preparations have won a splendid reputation as the remedy for

Eczema, Pruritis, Psoriasis, Acne, Scabies, Seborrhœa, Hæmorrhoids, Alopecia, Impetigo, Sycosis, Urticaria, and all Skin Diseases.

Write us to-day for details and you will have made a big step towards better business.

PEAT PRODUCTS (Sphagnol), Ltd.
Dept. B7,
18 QUEENHITHE, LONDON, E.C. 4.

THE

GREAT & STEADILY GROWING DEMAND

FOR

"ALEXINE"

THE NATIONAL FRENCH REMEDY

IS DUE LARGELY TO THE REMARKABLE extent to which nerve specialists and general practitioners are prescribing it. "ALEXINE" is being brought forcibly to their notice as the true nerve-cell nutrient and remedy by persistent advertising in the big-circulation papers. You are certain to be asked for it. "ALEXINE" is manufactured in France to the secret formulæ of Dr. Joulie.

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HEPPELLS, 164 Piccadilly, W. 1.

Write to-day for generous trade terms. "Alexine" retails readily and steadily at 5s. and 10s. a bottle. Counter Literature supplied gratis. Send a postcard now.

One of the very best sellers in *your* business, with a specially rapid sale, and well advertised.

WOODWARD'S

"GRIPE WATER"

1/3

1/3 per Bottle.

(*Under the protection of P.A.T.A.*)

NET PRICE:

1 gross, delivered free to your door, **£7.**

Your profit is 28½ per cent.

No more used "Gripe Water" Bottles required.

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Cephos

For NEURALGIA, HEADACHE, RHEUMATISM & INFLUENZA.

TRADE TERMS:

MINIMUM RETAIL PRICE	1/3	3/-
PRICE ... ... per doz.	12/-	30/-

Bonus of 10/- on £5 worth for 14 days' Window Display

Terms: Cash in one month. Orders carriage paid. Minimum Retail Price: Loose powders 2½d. each, yielding a profit of 99%.

CEPHOS LTD., BLACKBURN, Lancs.

Seven Spas Soap

For all Rheumatic Complaints.
Recommended by the Medical Profession.
Sold by all Stores and Chemists.

Price **1s. 6d.**

Seven Spas Proprietary Co, Ltd.
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Messrs. BUTLER & CRISPE,
80-82 Clerkenwell Road, London, E.C. 1,
Sole Wholesale Agents.

'Semprolax'
Trade Mark.

LAXATIVE CONSERVE

The new laxative in the form of a conserve, containing 80 per cent. of high viscosity Liquid Paraffin. Being elegant and palatable, "Semprolax" is a ready seller and can be recommended with confidence.

BE PREPARED TO MEET THE DEMAND.

P.A.T.A. Prices:
25% PROFIT.

	Retail.	Per doz.
½ lb. (approx.) ...	2/0	18/0
1 lb.	3/9	34/0
2 lb.	6/6	58/6

The Wm. Browning Co., Ltd.
ALBERT STREET,
PARK STREET,
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BEECHAM'S PILLS

WHOLESALE PRICES.

Beecham's Pills:

1s. 3d. size	... ...	**10s. 6d.** per doz. net.
3s. 0d. „	... ...	**26s. 6d.** „ „
5s. 0d. new size, contains double the quantity of 3/- box.		**50s. 0d.** „ „

Beecham's Cough Pills:

1s. 3d. size	... ...	**10s. 6d.** „ „
3s. 0d. „	... ...	**26s. 6d.** „ „

Minimum quantity £5 value. Packages FREE. Carriage PAID. CASH WITH ORDER.

Cheques to be made payable to **THOMAS BEECHAM**, and crossed "Parr's Bank, Ld., St. Helens."

To Chemists

If we were desirous of giving you Testimonials as to the quality and expedition of our work we could do so, but they would take up too much space in our advert. It is sufficient for us to have the appreciation of our customers, who are always talking about us, and that is what they do. Thus they keep us busy, and always keep us thinking how we can improve our work, with a desire to serve them to our utmost. . . . . .

Labels, Cartons, Pockets, Handbills,

are daily requirements of the Chemist. Send your next enquiry to . . . . . .

THOMAS WAIDE & SONS LTD. LEEDS

Full Set of Samples to Colonies for 10/6, which amount we credit on orders of £10 and upwards.

Finest BLACKS and

COLOURS

(ALL SHADES)

Soluble in Water, Spirit, Oil, Turps, Benzoline, Glycerine, Wax, Naphtha, Petroleum, Creosote, in fact — anything.

BLACK
FOR INK.

MARKING INK.

ETERNITE
Combined Preservative and Stain for Wood.

HOUSEHOLD DYES.

CARAMEL COLOUR
in Powder.

Guaranteed Harmless.

50 times the concentration of Liquid Caramel.

RHEUMSOL BATH SALTS in 1/- tins

WILLIAMS BROS. & CO.

HOUNSLOW, MIDDLESEX.

Petroleum Jelly

White, Yellow, Amber, & Ruby Red, for all Pharmaceutical and Veterinary purposes

MEADE-KING, ROBINSON & CO., LTD.
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SALVO PETROLIA
The Perfection of Petroleum Jelly
MANUFACTURED SOLELY BY
THE DEE OIL COMPANY, Ltd.
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Packed in barrels, kegs and smaller packages according to requirements.
Other Grades
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Samples and prices on application.
"OLEUM DEELINÆ," a certain cure for Eczema.
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REAL SILVER LEAF
As supplied for many years to the leading Houses for Pills, Cachous, &c.
We also supply
GOLD LEAF AND GOLD POWDERS
WHOLESALE ONLY.
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Gough, Kidston & Co.

Chemical Manufacturers,
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Gum & Wax Merchants,
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Works: BERMONDSEY.
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Ralty Home Dyes

"Press the Bulb and start dyeing."

USING Ralty Dye is simplicity itself, if you can use a fountain-pen filler, you can use Ralty—it's just the same. A thin filter-cloth encloses the dye powder, and the colour can only leave the tube *in solution.*

The colour is rich, even and fadeless, and can be made bright or subdued by simply pressing the bulb.

Housewives everywhere are asking for Ralty Dyes. Supply them and get a good profit! "Once bought, always bought," is the retailer's experience.

WRITE for SAMPLES & PRICES

Art Showcards, Counter Boxes and strong advertising are making the Ralty Dyes an easy and profitable line for the Trade. Write direct to:—

ECROYD & COMPANY

RALTY WORKS, FARNWORTH, BOLTON.

PARAFFIN WAX

PETROLEUM JELLIES

Sterns Ltd. 80 Royal London House, Finsbury Square, E.C.2

WHITE OILS

PARAFFIN LIQUID

Established over a Century.

SAMUEL THORNLEY, LTD.

WHOLESALE DRUGGISTS AND DRYSALTERS, OIL IMPORTERS, GREASE AND VARNISH MANUFACTURERS.

Members of the Methylating Company, Limited.

Telephone: 2271 Central (3 lines).

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Head Office: **6 Snow Hill, BIRMINGHAM.**

Works - - - Slaney Street, Wharf Street.

Branches: GOSTA GREEN. GOOCH STREET. DERITEND. JOHN BRIGHT STREET.

MORRIS, LITTLE & SON, Ltd., DONCASTER

SHEEP DIPS Poisonous and Non-Poisonous of all kinds.

DISINFECTANT SOAPS of all kinds.

Sole Proprietors and Manufacturers of **PHENOID (formerly called PHENYLE).**

DISINFECTANTS of all kinds, including LYSOL SUBSTITUTE and High Co-Efficients.

Largest Makers of Non-Poisonous Sheep Dip in the World.

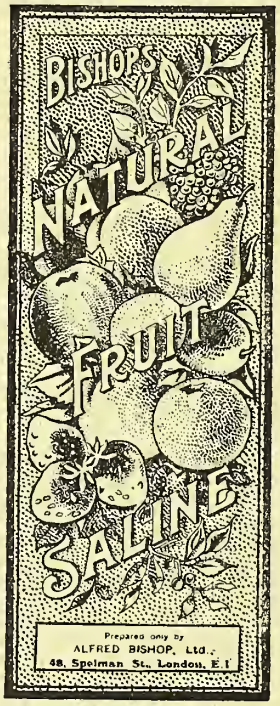
BISHOP'S NATURAL FRUIT SALINE

What it is.

BISHOP'S
Natural Fruit Saline

is free from sugar or saccharine, yet makes a delightfully palatable beverage. Clears the liver and kidneys, and acts as a mild aperient. It is manufactured in small granules and keeps well in any climate.

It pays to push BISHOP'S !



What it costs.

BISHOP'S
Natural Fruit Saline

retails at 2/3 per bottle P.A.T.A.

Wholesale price, 20/- per dozen.

5 dozen - -	£5 0 0
10% discount	10 0
Net	£4 10 0

Carriage Paid.

Thus showing a profit of 9d. per bottle.

Attractive show material and price cards sent with each order.

PREPARED ONLY BY **ALFRED BISHOP, LIMITED, 48 Spelman St., LONDON, E.1**

PURE ORANGE WINE
A. MILLAR & CO., LTD., DUBLIN

(VINUM AURANTII B.P.) Prepared in strict accordance with the Formula of the British Pharmacopœia. (Wholesale only.)
Samples from Head Office, Thomas Street, DUBLIN, or London Office, 43 Great Tower Street, LONDON, E.C.3.

ORION ★ ★★★ ★ BRAND

SACCHARIN 550 STRENGTH

Acetanilid, Amidopyrin, Aspirin, Caffeine, Citronellol, Coumarin, Heliotropin, Nerolin, Phenacetin, Phenazone, Potass. Permanganate, Salicylate of Sod., Salicylic Acid, Salol, Terpineol, Thymol, Vanillin

Sole Importers:
LINTON, HUBBARD & ANDREW, 72-75 Fenchurch Street, LONDON, E.C.3.
Telephone: 1892 Avenue. A B C and Lieber's Codes. Cables and Telegrams: "Linteolo London."

WINCARNIS

Sells readily ALL the time.

COLEMAN & CO., Wincarnis Works, NORWICH.

IMPORTANT NOTE TO CHEMISTS WITHOUT LICENCES

It has been established by law that Registered Chemists may sell "Wincarnis with Quinine" *without* a licence.

POTTER & CLARKE, Ltd.

60, 62, 64 Artillery Lane, London, E.1

And at 24 Luna Street, Great Ancoats, Manchester.

TRADE MARK

CRUSH-LEMON

CRUSH-LEMON

THE NEW LEMONADE POWDER. SUGAR SWEETENED.

A Cool Drink for Hot Summer Days.

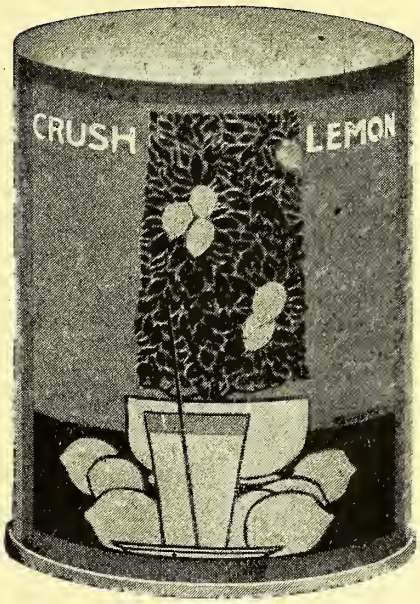
A Teaspoonful makes a Glass of Lemonade.

Smart Showcard with all orders.

Label in six colours.

A triumph of artistic skill which sells the line for you.

A line for Discriminating Buyers.



Makes an artistic window show.

Gives good value for money and good profit to retailer.

PACKED IN ONE SIZE ONLY.

8-oz. tins (as illustrated) retail **1/3** each; **10/6** dozen.

6-dozen lots, **10/3** dozen.

1-gross lots, **10/-** dozen.

On gross lots, 50 per cent. profit on cost.

CRUSH-LEMON

LEMONADE CRYSTALS.

SWEETENED.

9d. Bottles in Smart Carton, 6/- doz.

MAKES 2 GALLONS.

Customer's own name and address on special carton on orders for 1 gross.

SELLS ALL OVER THE WORLD.

Send for a copy of Potter & Clarke's Illustrated List.

NEW LINES.

MALTINE
IN POWDER FORM
The original Maltine with the moisture exhausted. Frequently preferred to the liquid form.

MALTINE with PARAFFIN
IN POWDER FORM
The most palatable and attractive preparation of Liquid Paraffin. The best corrective for constipation.

Sample on application.

THE MALTINE CO. LTD.
9 Holborn Viaduct
London, E.C.

VITMAR

The new vitalising food proved to contain the three principal vitamines

YOUR WHOLESALERS CAN SUPPLY YOU

Manufacturers: *Food Specialists,*
CALLARD & CO., 74 Regent St., LONDON, W. 1.

Telegrams: "Gathergood, Terrington St. John."

ESTABLISHED 1900.

CULINARY HERBS, RUBBED MINT, PARSLEY, THYME, SAGE, etc. etc.

CULINARY HERBS OUR SPECIALITY

Wholesale and Export Only

Dr. B. W. GATHERGOOD'S Exor. & Co.
Tilney St. Lawrence, KING'S LYNN.

J. FLEMONS & SONS
Wholesale Herb Merchants,
DUNSTABLE & SOHAM.

Special lines: English Herbs, Roots and Flowers, fresh and dried.

LEAVES & HERBS.
Digitalis, Belladonna, Broom Tops, Dandelion Tops, Coltsfoot, Mugwort, Ragwort, Wild Carrot, Meadowsweet, etc

ROOTS.
Belladonna, Burdock, Bryony White and Black, Comfrey, Dandelion, Male Fern, Doggrass, etc.

Full List on Application.

HAVE YOU CONSIDERED THE

"SELL AT SIGHT"

POSSIBILITIES OF

BURGOYNE'S

UNIVERSAL

FRUIT SALINE?

ADD TO THIS—THE PROFIT OF 9½d. ON EACH BOTTLE—AND YOU WILL AGREE IT IS WORTH YOUR WHILE TO WRITE US FOR A SPECIMEN WRAPPER & SPECIAL TERMS FOR A WINDOW DISPLAY.

BURGOYNE, BURBIDGES & CO., LTD.

EAST HAM, LONDON, E.

Careful Mothers insist on the NESTLÉ FEEDER

The superiority of the Nestlé Feeding Bottle is so obvious that doctors are advising it, nurses are recommending it and mothers insist on having it. Nothing is good enough for their little ones but a bottle which is perfect in hygienic construction; which cannot possibly harbour dirt or disease germs and which ensures that the food is taken without undue effort or excessive air.

Nestlé's Feeding Bottle is constructed throughout on scientific principles, it is impossible for the child to detach the teat and rubber valve which automatically cling and are made from pure plantation rubber. Colic is prevented because the flow of air behind the milk is systematically regulated. The feeder, made of virgin glass, can be tilted to and will remain at any desired angle. Its capacity is 10-oz., and every part, including the box, is thoroughly sterilized before leaving the factory.

NESTLÉ Feeding Bottle

the Cheapest full-sized Feeding Bottle on the Market.

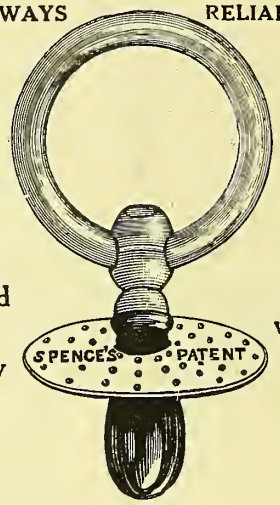
Easy to sell; brings good profit and rapid turnover. Write to-day for full details and current trade price list.

NESTLÉ'S (Advert. Dept.),
6-8 EASTCHEAP, LONDON, E.C. 3.

SPENCE'S SOOTHERS

ALWAYS RELIABLE.

This is a Speciality of ours—Best Quality Well-Fitted and Attractively Carded.



Stocked in 101 Varieties. All Good Selling Lines and well-known to the Public.

A complete set of Samples can be sent upon receipt of Postal Order value 30/6 Net.
£1 orders and over, less 5% cash with order.
Carriage paid on 40/- orders and over.
Write for new List of Prices—many reductions.

H. B. SPENCE, 44 THORNE ROAD, SOUTH LAMBETH, S.W.8
Telephone: Brixton 1772.

CURASOL

THE ORIGINAL

Boracic Socks

Fixed Selling Price, 6d. per pair.
Cost, 4/- per dozen.
Six dozen lots, 46/- per gross.

Distributing Agents:

England and Wales—
Sangers, 42a Hampstead Rd., London, N.W.1.

Scotland—
Munro, M'Laren & Sutherland,
17 Cadogan Street, Glasgow.

For Sample Pair (state size) send Postcard to—

The Curasol Sock Co.
19/20 Garlick Hill - - LONDON, E.C.4.

A SATISFIED CUSTOMER IS THE CHEMIST'S BEST ADVERTISEMENT

The Marvel Whirling Spray Syringe

Gold Medal Awarded, Paris, 1902, by the Société d'Hygiene of France

as the latest and best improvement in Vaginal Syringes. Particular attention is called to the fact that by reason of its peculiar construction the Marvel Syringe dilates and flushes the vagina with a volume of whirling spray, which smooths out the folds and permits the injection to come into contact with and cleansing the entire surface.

Fully Protected by Patents.

You can safely recommend it.

Has no rival on the market, is well advertised, pays a good profit, quality guaranteed. The MARVEL is returnable for exchange if found defective and reported promptly.

Trade price, 125/- per doz.

Retail price, 15/- each.

FASSETT & JOHNSON, Ltd.

86 Clerkenwell Rd., London, E.C. 1.

SAYERS, SILCOX, CUZNER & Co. Ltd.

HULL.

THE TRUSS MAKERS

ARE ALSO MAKERS OF

BELTS, CORSETS
SUSPENSORY BANDAGES
CHEST EXPANDERS
CHEST PROTECTORS
PNEUMONIA JACKETS
WRIST - STRAPS
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and all similar articles.

LOWEST PRICES.
IMMEDIATE DELIVERY.

SWALES FOR UNDRIES and easonable ellers.

CORN VELVET
CLOTH BALLS
SPONGES
LOOFAHS
BATHING CAPS
FLESH GLOVES
SPONGE BAGS

And all Sundries at Keen Prices.

THOMAS SWALES
TEL. 22260 LEEDS, England.

OILED SURGICAL COTTONS
OILED SURGICAL SILKS

EDWARD MACBEAN & Co., Ltd.

Manufacturers of Oil-proofed and Rubber-proofed Cloths of every description.

London Office—6 & 8 Lime Street Square, E.C. 3.

123-125 Howard Street - GLASGOW.

Telegrams:
"Diamond, Glasgow."
"Stormproof, Led, London."

Telephones:
8387 Central.
1995 Central.

Codes: Lieber's 5-Letter, A B C (5th Edition), and Marconi.

GETS-IT

(The World-Famous Corn Remover.)

"Gets-It" is a liquid which dries at once when applied to corns or calluses with the glass applicator that accompanies each bottle. Stops pain at once and soon loosens the corn or callus so that it can be lifted right off.

Used by Many Millions throughout the balance of the world, and certain of enthusiastic reception here.

Now Distributed in Great Britain through

THOMAS CHRISTY & CO.

4, 10 & 12 Old Swan Lane, Upper Thames St., London, E.C.4.

Manufactured by E. LAWRENCE & CO., Chicago, U.S.A.

BOOKS FOR PHARMACISTS

Send us a postal card and we will send you a 32-page catalogue of professional and business books for pharmacists, and a copy of

"THE SPATULA"

an illustrated monthly magazine for druggists, full of American snap and enterprise.

THE SPATULA PUBLISHING CO.

BOSTON 14, MASS., U.S.A.

J. H. HAYWOOD, LTD. CASTLE GATE, NOTTINGHAM.

INVENTORS OF SEAMLESS ELASTIC HOSIERY.

SURGICAL APPLIANCE MANUFACTURERS.

Specialities:

Abdominal Belts, Trusses, Suspensory Bandages, Braces, Elastic Web Bandages, and Druggists' Sundries.

WRITE FOR PRICE LIST. ESTABLISHED 1833. TELEGRAMS: "APPLIANCE NOTTINGHAM."

CLINICAL THERMOMETERS.

BEST ENGLISH MAKE GUARANTEED. Verified & Stamped at National Physical Laboratory, Kew.

The "EMPIRE" Brand.

		s. d.
Hospital pattern	per doz.	25 0
,, lens front... ...	,,	28 0
60-seconds, plain	,,	31 0
,, lens front ...	,,	34 0
30-seconds, plain	,,	34 0
,, lens front ...	,,	37 0

The "DUO-IN-UNO." (Quick Shake-down.)

		s. d.
Hospital pattern	per doz.	34 0
,, lens front	,,	37 0
60-seconds, plain...	,,	40 0
,, lens front	,,	43 0
30-seconds, plain	,,	46 0
,, lens front	,,	50 0

EACH ONE IN METAL CASE.

SPECIAL OFFERS.

(No. 1)

In return for cash **20/-** we will send you post free the following assortment of "Empire" Brand.

	List price per doz.	s.	d.
4 Hospital pattern	25/-	8	4
2 ,, ,, lens front ...	28/-	4	8
1 60-seconds, plain	31/-	2	7
1 ,, lens front ...	34/-	2	10
1 30-seconds, plain	34/-	2	10
1 ,, lens front ...	37/-	3	1

10 Thermometers for **20/-** List Price **£1 4 4**

(No. 2) "DUO-IN-UNO" Patent

In return for cash **20/-** we will send you post free the following assortment of "Duo-in-Uno" Brand.

	List price per doz.	s.	d.
2 Hospital pattern	34/-	5	8
1 ,, ,, lens front ...	37/-	3	1
1 60-seconds, plain	40/-	3	4
1 ,, lens front ...	43/-	3	7
1 30-seconds, plain	46/-	3	10
1 ,, lens front ...	50/-	4	2

7 Thermometers for **20/-** List price **£1 3 8**

The above offers will expire July 31st, 1921. If you desire to take advantage of both offers you may do so either at the same time or separately, but you cannot have more than one lot of any one kind,
A discount of 5% for prompt cash is allowed on all amounts of 10/- and upwards. Money returned if goods are not satisfactory. Write for Illustrated Price List, post free for the asking.

BURGE, WARREN & RIDGLEY, Ltd. 91 & 92 Great Saffron Hill, LONDON, E.C.1

Southalls' Towels

for Ladies

	Trade gross	Retail dozen
Size 0 ...	8/6 ...	11d.
,, 1 ...	11/6 ...	1/3
,, 2 ...	14/7 ...	1/7
,, 3 ...	18/6 ...	2/-
,, 4 ...	20/9 ...	2/3

COMPRESSED—

	Trade gross	Retail each
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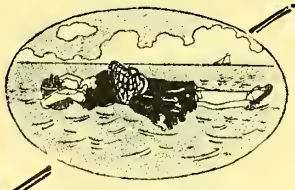

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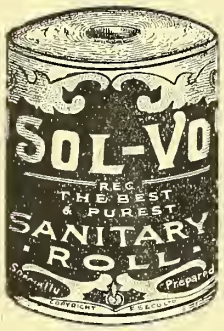

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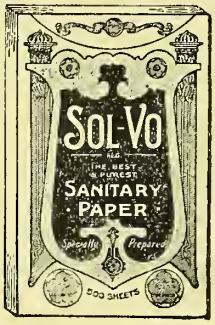

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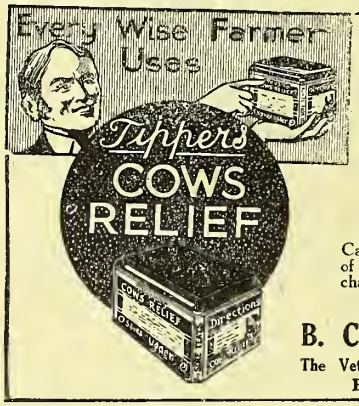

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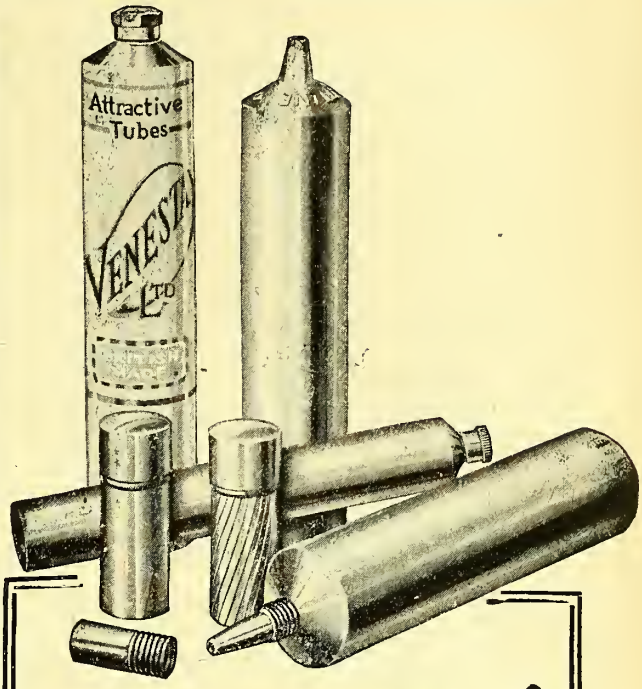

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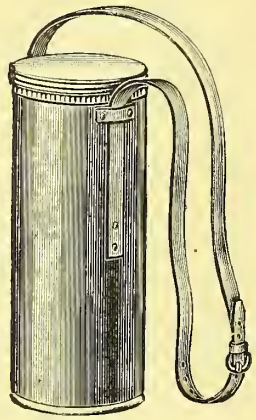

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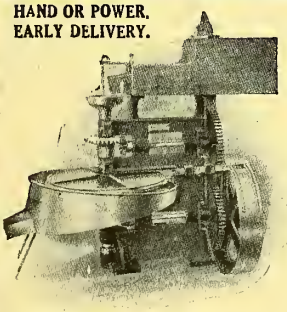

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THE CHEMIST AND DRUGGIST SUPPLEMENT

42 CANNON ST.
LONDON E.C.4

JULY 9, 1921

This Supplement is inserted in every copy of The Chemist & Druggist.

THE SUPPLY OF SUPPLEMENTS.

The clerical work in connection with the posting of spare copies of the Coloured Supplement week by week has increased to such an extent that we have been compelled to reorganise our system of distribution. Our readers will please note, therefore, that, in future, instructions can be accepted for not more than six successive issues of the Supplement at a time, and that in every case

ADDRESSED WRAPPERS STAMPED ONE PENNY

must be sent. Loose stamps will not be accepted.

EARLIER CLOSING FOR PRESS.

Will advertisers please note that until further notice it will be necessary that Advertisements intended for the Supplement must reach us not later than the FIRST POST THURSDAY MORNING.

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Messrs. ORRIDGE & CO., 56 Ludgate Hill, E.C.

Telephone No: City 2283.

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4.—LONDON, S.E.—For disposal, half-share Partnership in small Wholesale Business; returns last year £6,000, with scope for increase; stock between £750 and £800; price £500.

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7.—HOME COUNTY.—Cash Retail Business; established 25 years; returns £3,200; *net profit* 25%; double-fronted shop, well fitted and stocked; small house, garden; rent £60; long lease; price £2,250, or valuation terms entertained.

8.—BERKS.—Cash Retail, Dispensing, and Photographic Business; very old-established; returns, present rate, £5,000 per annum; *net profit* 25%; handsome double-fronted shop, heavily stocked; rent £60; held on lease; price £3,500, or valuation terms entertained.

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10.—WEST OF ENGLAND.—Old-established Business, capitally situated; returns exceed £2,000; *net profit* 25%; attractive, well-fitted shop, fully stocked; further details on application.

11.—HUNTS.—Unopposed Business; very old-established; returns £1,200; scope for development; *profits one-third*; comfortable residence; vendor's own property; the whole is for disposal.

12.—N.W. MAIN LINE.—Wholesale and Retail Business, centrally situate in large manufacturing town; scope for unlimited extension; commodious premises; rent moderate; further details on application.

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CHEMIST, 8 years' experience in South Africa, returning there in October, desires Agencies or Sole Agencies for the Union of South Africa for Patent Medicines or Proprietary Articles. Apply M. R. Liddell, 11 St. James' Terrace, Forfar, Scotland.

ENTERPRISING firm of Exporters and Merchants, possessing specialised knowledge and experience in the successful marketing abroad of Patent Medicines, Toilet Articles, etc., and with unique representation and connections in all principal export markets, desire to undertake the entire creation and development of export sales of one or two genuine British Proprietaries, preferably new, but sound lines; the whole proposition will be handled, including effective distribution, press and trade advertising and copy-writing, circularising shipping, correspondence, etc., by men experienced in this work; terms, 10 per cent. on gross sales, plus a fixed sum of £100 per annum to cover office and sundry expenses; an exceptional and valuable opportunity to manufacturers anxious to build up an export business but lacking the specialised knowledge and experience required, or undesirous of adding unduly to establishment charges by setting up the necessary organisation. Write in the first instance to "Export" (P.C.B. 7/5), Office of this Paper.

TRAVELLER, on commission, with good connection amongst Lancashire Chemists, to introduce patent Indigestion Specific; light samples; good terms to smart man, not interested in any similar article, able to secure good sales with minimum advertisement; applications for Agencies invited. Address 147/22, Office of this Paper.

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HEREFORDSHIRE, Monmouthshire, or adjacent county.—Sound Retail Business required; returns £1,000 to £1,500; must have good living accommodation; thorough investigation required. Full details, which will be treated in strict confidence, in first letter to save unnecessary correspondence, to 149/26, Office of this Paper.

LAKE DISTRICT OR NEAR.—Chemist requires to purchase a genuine, sound Business, showing a good turnover; please state turnover, profits, lease, accommodation, shop, house, rental, and kind of business; can take over now or wait vendor's time; replies treated in strict confidence. "Genuine" (148/38), Office of this Paper.

SOUTH of Birmingham.—Sound Chemist's Business required; cash available, £1,800; Partnership or Managership, with view to succession, entertained; banker's and personal references; replies treated with confidence. Apply Burton, Newhaven, Morgan Avenue, Torquay.

ADVERTISER requires a well-established Middle-class Business, in a healthy country or seaside district or moderately large town, with family residence attached or separate; South of England preferred; business yielding at least £500 a year net; please state price, length of lease, rent, etc., which will be treated in strict confidence. Apply 144/21, Office of this Paper.

CHEMIST requires to purchase small, sound Business, with scope for increase; housing accommodation essential; Home Counties preferred; country or small town. Apply, with full particulars, to 147/19, Office of this Paper.

MR. J. OLIVER, formerly Chemist, Devizes, desires to purchase good Middle-class Business, present turnover about £2,000; locality preferred, Southern or South-Eastern County, South-West, or South Midlands; immediate, or can wait; free to negotiate; cash ready. Address J. Oliver, "Carisbrook," Queen's Road, Blandford, Dorset.

PERSONAL Business required; cash or arrangement; South. Write particulars, interview, Humphreys, 2 Royal Mansions, W. Croydon.

PHARMACIST desires to purchase a sound business, with a turnover of £2,000 to £3,000 per annum; full particulars treated in confidence; Partnership or Managership, with view to succession, also entertained. 147/13, Office of this Paper.

SOUND Cash Retail Chemist's Business wanted in North Wales coast town (now, or end of season); good living accommodation essential; returns £2,000, upwards; cash ready; bankers' reference given; replies treated in strict confidence. Apply 148/22, Office of this Paper.

WANTED, genuine Business, with living accommodation, in South, S.E., or S.W. England; must be good value for money; good lease; moderate rent; cash up to £1,000; replies treated in strict confidence. "Galen," c/o Messrs. Wright, Layman & Umney, 46 Southwark Street, S.E.

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FOR Sale, Consulting Herbalist's Business; good opening for Chemist or Drug Stores; no opposition; shop and five rooms; immediate possession; situated Ratcliff, London, E.; only £200; open to sell freehold on terms. Apply Owner, 75 Goldsmith Row, Hackney.

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LONDON, E.—Junior, with knowledge of Dispensing and Photography; comfortable berth. Apply, stating experience and wages required, to "P. B. P.," 68 Foyle Road, Blackheath, S.E. 3.

LONDON, E.C.—Wanted, smart unqualified Junior Assistant (male), for quick City business. Apply, giving usual particulars, and stating salary required, to P.C.B. 6/35, Office of this Paper.

LONDON, S.E.—Assistant wanted (at once) for Light Retail and Dispensing business. Apply, stating full particulars, salary required, in first letter, 149/15, Office of this Paper.

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LONDON, S.E.—Junior Assistant (male or female), for Dispensing and Counter. Apply, giving full particulars and salary required. to Chemist, 61 Peckham Park Road, S.E. 15.

LONDON, S.W.—Qualified, capable, courteous Assistant; must be good Countermau; knowledge of Photography preferred. Apply, stating age, salary required, height, recent references, with photo, to Parson C. Baker, 174 Victoria Street, S.W. 1.

LONDON, S.W.—Manager. qualified, experienced in middle-class quick Cash trade, with Photography; must be energetic and capable of developing business; record must bear investigation; this position offers scope to a reliable, keen man, 25-35 years of age. Fulham Pharmacy, 781 Fulham Road, S.W. 6.

SOUTH KENSINGTON.—Good all-round man, qualified or unqualified, with knowledge of Photographic work; must be able to give unexceptionable references to ability for organisation and management; one with West-End experience required. Reply to "Chemicus" (147/12), Office of this Paper.

A CAPABLE unqualified Assistant required; must be well up in all branches, including Photography; one able to undertake Developing, Printing, and Enlarging will receive preference. Write, giving full particulars of age and experience, to Secretary, Tamworth Industrial Co-operative Society, Ltd., 5 Colehill, Tamworth.

A COMFORTABLE home offered to young qualified Chemist (Photography essential) for eight weeks; longer if suitable. Apply, stating salary, reference, etc., to Bayley, Chemist, Canterbury Road, Herne Bay.

A WOMAN Dispenser is required at the Bermondsey Borough Council's Tuberculosis Dispensary, 108 Grange Road, S.E. 1, for three weeks' holiday duty, from August 8th; the person appointed will be required to attend five sessions weekly, totalling about 17 hours; salary two guineas per week. Applications should be addressed to the Medical Officer of Health, Town Hall, Spa Road, Bermondsey.

ASSISTANT, for good-class Retail and Dispensing business (indoors); a man with some experience wanted. Harris, Chemist, 1 Kingston Hill, Kingston-on-Thames. (Norbiton Station.)

ASSISTANT for season; must be well up in routine of Amateur Developing and Printing. Particulars as to salary, etc., Stedmans, Chemists, Weymouth.

ASSISTANT, about 21; male; Dispensing, Counter, and Stock (outdoors). Send full particulars of experience, references, etc., Tupholme & Son, Coleherne Terrace, Earl's Court, S.W.

COMPETENT, unqualified or young qualified, if willing, to do routine, for busy Dispensing and Family trade; must be capable; hours, 8 per day; permanency. Apply, with usual particulars, C. M. Ward, 455 Anlaby Road, Hull.

DISPENSER and Bookkeeper (lady) required; commence August 22nd; hours (provisionally) 9 to 6; afternoon a week and alternate Sundays free; Dispenser kept for evenings. Send particulars and salary required to Dr. Jenkins, 140 Upper Richmond Road, East Sheen, S.W. 14.

IMMEDIATELY for season, in good Dispensing and Retail business, Male Assistant (outdoors), about 25. Give particulars in first letter, age, height, salary required, photo (if possible), W. M. Rosser, 2 Ethelbert Terrace, Margate.

IMPROVER, or youth just having finished apprenticeship, required (indoors). Apply, stating age, experience, and salary, and send photo, if possible, to Mrs. Holme, Market Place, Wallingford-on-Thames.

JUNIOR Assistant, capable, for Light Retail, with N.H.I. Dispensing; knowledge of Photography essential; no Sunday duty. Apply, with usual particulars, salary, etc., Wood, 351 High Street, West Bromwich.

JUNIOR or Improver. State age, experience, and salary required. J. & H. A. Averill, Pharmaceutical Chemists, Stafford.

JUNIOR, male, capable, for middle July; Retail and Dispensing business; outdoors; under manager; comfortable berth; part time might suit. Apply Crane & Co., 143 Lambeth Walk, S.E.

JUNIOR Assistant wanted at once. Apply, with full particulars, to Arnold Roberts & Co., High Street, Acton, W. 3.

JUNIOR or Improver, for Dispensing, Photography, and Counter. Full particulars of experience and salary required to H. F. Ferriss, 349 High Road, Lee Green, S.E. 12.

LADY Assistant; knowledge of Dispensing, Photographic, and Counter work; outdoors. State experience, salary required, etc., Gaze, Chemist, Cheshunt.

LADY, Minor qualification; N.H.I. Dispensing chief duty; working-class neighbourhood; applications unanswered seven days respectfully declined; state age, salary, etc. Apply 148/37, Office of this Paper.

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QUALIFIED Branch Manager, for Birmingham; unfurnished house attached; Light Retail, N.H.I., Photographic; modern Salesmanship and Window-dressing; good references essential. Apply, with full particulars, to "Permanency" (149/19), Office of this Paper.

QUALIFIED Manager wanted for West-End business; must be real live man, and in berth at present time, but wanting to improve; good salary and rising commission on results; splendid opportunity. Apply, by letter only, giving full particulars of experience, P.C.B. 7/8, Office of this Paper.

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QUALIFIED, age 30 to 40, to manage branch; must be experienced and good Salesman; not afraid of work; good references Also good Junior Assistant. State salary required, experience, etc. (outdoors), William F. Cole, 41 London Road, Lowestoft.

REQUIRED (immediately), Lady Assistant, with good knowledge of Counter and Dispensing. Apply Goddard & Grieve, Ltd., 465 Finchley Road, N.W. 3.

SEASON Assistant.—Smart young lady required for Counter, Toilets, etc., for three months, at once. Send copies of testimonials, Blades, Chemist, Llandudno.

SMART, gentlemanly Junior for Counter, high-class Dispensing and Photographic business. Terms and references to Richards, Chemist, Hagley Road, Edgbaston, Birmingham.

UNREGISTERED Assistant required at once; tactful Counterman; good knowledge Photographic; quick routine; excellent scope for suitable man, under 30. Alex. Reid, 411 Mare Street, Hackney, N.E.

WANTED, at once, a Locum. Oram's Drug Co., Romsey, Hampshire.

WANTED (at once), qualified Manager for Branch in working-class neighbourhood; reliable Dispenser, good Salesman and Window-dresser; no Sunday duty. Full particulars and salary required to S. Paddon, M.P.S., 657 Attercliffe Road, Sheffield.

WANTED (immediately), a young unqualified Assistant; good Counterman and Dispenser; Photographic knowledge essential. Apply De Peare, 14 Highbury Park, N. 5.

WANTED, smart Junior (outdoor) for Counter; one used to quick Cash business. Apply, stating full particulars of experience and age, to E. J. Kitson, City Drug Stores, Worcester.

YOUNG Lady Assistant wanted immediately; reliable Dispenser, with good Counter experience and knowledge of Photographic trade. Apply D. Edgar Davies, 59 Dudden Hill Lane, Willesden, N.W.

YOUNG lady Pharmacist, as Dispenser; hours, 9 to 7, Wednesday 9 to 1, Saturday 9-8; no Sunday duty. Apply A. H. Windridge, Ltd., Chemists, Knowle, near Birmingham.

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QUALIFIED Pharmacist required as Representative for reputable house; experience not essential; exceptional opportunity for gentlemen desirous of entering the Wholesale. Apply by letter, send photograph, and give full particulars of experience, age, height, and commencing salary, to "U. S." (148/5), Office of this Paper.

REPRESENTATIVE, with well-established connection amongst Chemists in Scotland, required by large London Wholesale house. Write, in confidence, to "C. R." (46/20B), Office of this Paper.

REPRESENTATIVES, all territories, on commission basis, for competitive lines in Toilet Preparations; must have sound connection amongst Chemists and Stores, and able to introduce good business. State terms, district covered, and full particulars re experience and other lines carried, to 42/45, Office of this Paper.

REPRESENTATIVES in all cities and towns required to carry as side-line, on commission basis, a Toilet and Medicinal Soap. State territory covered and full information to 144/28, Office of this Paper.

SPECIAL Representative required for important work in interviewing Dental Profession; experience of a similar nature will be an advantage, but Pharmaceutical knowledge is necessary. Give full particulars of experience, qualifications, and salary required to P.C.B. 5/8, Office of this Paper.

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Advertisers in this section who receive portraits and copies of testimonials from applicants with a stamped addressed envelope for reply are reminded that the undue retention of these often means a hardship to the sender. All personal documents should be returned as promptly as possible after perusal.

REPRESENTATIVE WANTED.

WALES and adjacent counties, local man preferred, good commission; state experience; our lines sell well and are known to all Pharmacists. Apply direct, Red Dand Chemical Co., Richmond Terrace, Edinburgh.

TRAVELLERS required for few Sundry Lines on commission; free-lances preferred; territories open, Ireland, Scotland, Wales, and Midlands. Apply, in first instance, to 5/340, Office of this Paper.

WANTED, a man to Sell, on commission basis, high-class Cardboard Pill and other sorts of Boxes. Particulars of district worked, references, etc., to 145/5, Office of this Paper.

SITUATIONS OPEN.

(Colonial, Indian and Foreign.)

6s. for 40 words or less; 6d. for every additional 10 words or less, prepaid.

BOMBAY.—Required, active man as Chemist and General Shop Assistant; three years' agreement; passage out and home paid. Apply, stating salary required per month, H. J. D., c/o Jeremiah Lyon & Co., 8 Paternoster Row, E.C. 4.

NATAL.—Chemist wishes to communicate with Assistant desiring engagement, qualified or otherwise; about £25 monthly, increase if satisfactory; passage paid. Full particulars to "F. G. H." (42/46S), Office of this Paper.

PARIS.—Assistant; knowledge of French and Continental experience; photo, if possible (to be returned), age, height, references, salary (outdoors). Roberts, 5 Rue de la Paix, Paris.

SOUTH AFRICA.—A Wet and Dry Counterman required for the Wholesale in a coast town; must be young and unmarried; three years' agreement; passage paid out. Please apply, by letter only, L., 14 Lafone Street, London, S.E. 1.

SITUATIONS WANTED.

[HOME.]

RETAIL.

2s. for 18 words or less; 6d. for every additional 10 words or less, prepaid.

The Advertiser may, if preferred, have replies addressed to this **Office**, and forwarded on payment of an additional charge of 1/-.

A.A.A.—LOCUM, disengaged until July 20, also nine days ending August 7; highest references, well recommended. Brown, 74 West Hill, East Putney, London, S.W. 15.

A.—COMPETENT Pharmacist (35); qualified 12 years, disengaged shortly; good experience, references; any capacity; moderate remuneration. "C.," 14 Alge Street, Ipswich.

A SENIOR Assistant in a high-class West-End Pharmacy (four years with present employers) would be glad to do a fortnight's relief work at any seaside during the month of August; highly recommended. Reply, P.C.B. 7/3, Office of this Paper.

ACTIVE, qualified Manager seeks similar position; 20 years' good all-round experience, including 9 years present London Managership. "M.P.S." (148/10), Office of this Paper.

ADVERTISER, 35, requires position, First Assistant or Manager; expert Dental Operator, Optician, Dispenser, Photographer, etc.; 20 years' experience all branches; married; desires permanency; could take financial interest. "Optician" (148/26), Office of this Paper.—[Will advertiser kindly forward name to this office?]

AS Assistant; 26; single; four years' apprenticeship and four years as Assistant. M.L. 14669, Office of this Paper.

AS Assistant Dispenser; age 27; married; three years' experience as Assistant Dispenser and Dresser. M.L. 75050, Office of this Paper.

AS Senior or Managing Assistant, Dispensing Operator, good General experience; five years Manager, Surgical and Medical, Storekeeper during war; Dental Expert, Extractor. "Smart," 192 Scott-Ellis Gardens, N.W. 8.

APPRENTICESHIP wanted; West Central London preferred. Communicate with M. Zamet, 32a Rupert Street, London, W. 1.

ASSISTANT (lady, 21); 4½ years' experience, good-class Dispensing and Retail; excellent references; now disengaged. E. M. Asbrey, c/o Mr. Ward, Chemist, Builth Wells, Breconshire.

ASSISTANT (25), unqualified, ex-Service, desires post; good Counter and Dispensing experience; excellent reference; North preferred, not essential. 147/20, Office of this Paper.

ASSISTANT, disengaged; experienced Counterman, Dispenser, Photographic Salesman, and Window-dresser. Shiels, 28 Newington Butts, S.E.

ASSISTANT, young lady; temporary or permanent; 3 years' good experience; good references. Apply 148/2, Office of this Paper.

ASSISTANT, unqualified (48); thoroughly capable, reliable, and experienced; Dispenser and Counterman; at liberty. North, 48 Morpeth Street, Hull.

BRANCH Manager, Locum, or Assistant; unregistered; competent all branches; highest references; or view succession entertained; easy terms. "Chemist," 34 Cawdor Road, Fallowfield, Manchester.

CHEMIST'S Assistant (33); married; 12 years' experience as Apprentice and Assistant; some Surgical knowledge; can drive motor. M.L. 72718, Office of this Paper.

COMPETENT, reliable Locum; gentlemanly address; fortnight in August; dates open. 143/8, Office of this Paper.

DISPENSER, lady (22), desires post with Doctor or Chemist; Hall qualification; references; moderate salary. Apply 147/10, Office of this Paper.

DISPENSER (Hall), age 23, seeks post or Locum-tenency; free August; South of England preferred. Address Miss L. Kettlewell, Stourpaine Vicarage, Blandford.

DISPENSER, qualified, desires position with Chemist; South Coast, Bournemouth area preferred; immediate. Apply 149/12, Office of this Paper.

DISPENSER-BOOKKEEPER.—Lady, with five years' experience, desires Locum work; North of England. "Dispenser," 43 Bishop's Road, Newcastle-upon-Tyne.

EVENING work required by experienced Dispenser and Bacteriological Laboratory Assistant, also efficient Accountant; all evenings free. Apply to Bull, 57 Glenwood Road, Catford Hill, S.E. 6.

EXPERIENCED, unregistered Assistant; Counter, Dispensing, Photographic, etc., tall, married, 38, seeks permanency as Senior. "Aspirin," 23 Doughty Street, W.C.

HOSPITAL Dispenser, Locum, qualified. Irving, 66 Rowfant Road, Balham.

LADY (20), unqualified, 4½ years' Dispensing and Counter experience, urgently desires post in any town in Scotland where night school can be attended; moderate salary. 146/29, Office of this Paper.

LADY Dispenser (Hall), 10 years' experience, desires post, Chemist or Doctor; permanent; country or South Coast preferred. Apply 147/40, Office of this Paper.

LOCUM or permanency; Dispenser; knowledge of Surgery, Bacteriology, Radiography; good unqualified Assistant to busy Doctor. "Studious" (P.C.B. 6/8), Office of this Paper.

LOCUM or otherwise; qualified; 26; disengaged; fluent French; London preferred, but not essential. Rutherford, 12 Balfour Road, Carlisle.

LOCUM, disengaged from July 11th to 25th; smart Manager, etc.; age 44. Mr. Bedding, 345 Woolwich Road, Charlton.

LOCUM, London or country; thoroughly competent; terms moderate; abstainer; disengaged. "E.," 39 St. Thomas Road, Finsbury Park, N.

LOCUM (38), qualified, disengaged from July 29 until September 7. "Solon," 94 Harberton Road, Highgate, N.

LOCUM or part time; Pharmaceutical Chemist; disengaged; Dispensing only, Pharmacy, Hospital, or Surgery. "M.," 1 Vicars Hill, Lewisham, S.E.

LOCUM; thoroughly experienced; qualified Dispenser; highest references; abstainer; wide experience; disengaged. "Alpha," 82 Dahomey Road, Streatham, S.W. 16.

LOCUM or permanent (38); Retail and Dispensing; references; disengaged; abstainer. Turner, 44 Macfarlane Road, Shepherd's Bush, W. 12.

LOCUM, disengaged from July 20th to August 6th only; qualified and reliable; highest references. "Chemist," Market Square, Bromyard, Worcester.

LOCUM; 30 years' wide experience; qualified; disengaged 2 weeks July 25th to August 6th, and after September 17th. M. Smith, General Dispensary, Silver Street, Lincoln.

M.P.S., 27, unmarried, first-class experience and credentials, seeks position as Manager; Midlands or London preferred. Apply 148/19, Office of this Paper.

M.P.S. SEEKS permanency as Manager; thoroughly competent; disengaged September. Inquiries to R. W., 70 St. John's Road, Scarborough.

MANAGER.—Advertiser, well educated, seeks position as Manager, with or without view to succession; thoroughly experienced in all branches of Retail; well up in Photography; aged 38; of active habits; abstainer; excellent references; permanency desired. 2 Endsleigh Park Road, Peverell, Plymouth.

MANAGER (Branch or Drug Stores); experienced as such; last situation six years; age 41; married; permanency; Apothecaries' Hall qualification; excellent references; moderate salary. Apply 144/20, Office of this Paper.

MANAGER, with view to succession; town or country; exceptionally good experience; for many years Buyer and Manager in London and provinces; pleased to do Locum work until otherwise fixed up, recently sold my business. Nosworthy, 133 Howard Road, Westbury Park, Bristol.

MANAGER or responsible position; unqualified; 38; expert Salesman; capacity for organisation and taking complete charge; modern business methods; £4 per week; London or near preferred. Apply 149/21, Office of this Paper.

POSITION desired as Dispenser, or in Wholesale Laboratory; experienced; Photography; good references. "E.," 11 L. Sutton Estate, Chelsea, S.W. 3.

QUALIFIED (Major), elderly, seeks part-time or light Locum work in London. Wright, 46 Hardwicke Road, Palmer's Green.

QUALIFIED (38), single, seeks berth (South Coast); West-End and Store experience; steady and reliable; good Dispenser; moderate salary. 146/32, Office of this Paper.

QUALIFIED Dispenser desires permanent or temporary work in London; experienced; good Bookkeeper. Miss Bailey, 14 Carlingford Road, Hampstead.

QUALIFIED desires permanency as Branch Manager or Senior; many years' sound experience, London and provinces; disengaged August 1st. Stansfield, 24 Laurel Grove, Southport.

QUALIFIED (lady), experienced, seeks post; locum or permanency; Doctor or Chemist. Robson, 42 Newark Street, Stepney, E.

QUALIFIED (31); abstainer; locum or permanent; all-round experience; Manager or Assistant. "J. E. B.," 43 Frederick Street, Gray's Inn Road, W.C.

QUALIFIED Dispenser (middle-aged), Hospital, Institution, or would manage country branch and invest small capital. "Reliable," 18 Richmond Hill, Luton, Beds.

QUALIFIED, young, energetic; first-class Dispensing and General, experience; excellent references. "Statim," c/o 175 Wokingham Road, Reading.

RETAIL or Wholesale Assistant; 21; three years' experience. M.L. 11675, Office of this Paper.

UNQUALIFIED, reliable, able to take charge; six years last situation; highest references; age 35. "Camphor," 211 Fulham Palace Road, W. 6.

W. J. GARDAM, M.P.S., Sutton, St. Helens, would be pleased to recommend his lady Assistant; South Lancs or Cheshire preferred; good experience Photo, N.H.I. Dispensing.

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2s. for 18 words or less; 6d. for every additional 10 words or less, prepaid.

The Advertiser may, if preferred, have replies addressed to this Office and forwarded on payment of an additional charge of 1/-

A YOUNG man (20) desires a position in a Perfumery Laboratory; experienced in the manufacture of Perfumes and Toilet Preparations; own original formulæ. "P." (147/39), Office of this Paper.

ACCOUNTANT-STOCKTAKER; 9 years' experience Drug, Sundries, and Photo, Retail Trades; accustomed control large staffs; ex-N.C.O. Please state wages offered, "Chemicus" (147/24), Office of this Paper.

ADVERTISER, age 30, desires position as Tablet Maker, Foreman or otherwise; 12 years' thorough experience; London or near. 147/38, Office of this Paper.

ADVERTISER has been connected with a firm (now in liquidation) for 35 years (man and boy), with a break of three years' Army service in France; has had exceptional travelling experience, practically all over the United Kingdom, both Wholesale and Retail; small salary; commission and expenses; quite willing to rely on selling capabilities. H. B. Cooper, 27 Queen's Road, Reading.

ADVERTISER requires post (Wholesale preferred); 15 years' all-round experience Drugs, Surgical, Sundries. "Salol," 37 Brunswick Road, N. 15.

ADVERTISING.—Gentleman, with own offices in London, is open to devote a portion of his time to one reliable firm requiring advertising assistance; the service would comprise the writing of all copy, preparing original ideas and selling schemes, planning and preparing complete lay-outs for Press Advertising and Advertising Literature, and, by working in close co-operation with the firm in question, generally controlling the advertising on economical and progressive lines; personal interview; references exchanged; letters will be treated in strict confidence. Apply 45/16B, Office of this Paper.

ASSISTANT; 21; two years' experience in Drug and Chemical Works and two years with Dye Manufacturers. M.L. 4867/21, Office of this Paper.

ASSISTANT Analytical Chemist; 26; three years an articled pupil; two years' experience, in charge of Analytical Department; experience in Clay, Shales, Oils, and Water. M.L. 95761, Office of this Paper.

ASSISTANT, Wholesale, Retail, Dispensing, Surgical Instruments and Sundries, 20 years' experience, at present in charge of shipping department, desires change; home or abroad. "J.," 7 Blechynden Street, Southampton.

DOCTOR-PHARMACIST, long experience, retiring from Retail, seeks post; Secretary, Traveller, Inspector, etc. Address 146/18, Office of this Paper.

GENTLEMAN, calling upon Pharmacists and Stores, desires similar engagement, first-class house; well introduced; successful interviewer. "Energy" (148/24), Office of this Paper.

JUNIOR Laboratory Assistant; would work in Saleroom, Warehouse, or Works, with view to Laboratory work later. A. H. Chapman, 7 Carholme Road, S.E. 23.

MAN (24), single, over six years' experience Patents, Drugs, Sundries, etc., as Checker, Warehouseman, and Dispatch, seeks situation, any capacity. Hubbard, 21 Warren Street, Islington, N. 1.

PACKER requires situation; used to Essential Oils and Fine Chemicals. W. Spaulls, 78 Ockenden Road, Islington, N. 1.

PART-TIME Representation.—Advertiser is open for part-time services with Wholesale firm, Heavy, Fine, or Drugs; 20 years' experience; first-class references; whole-time engagement entertained. Reply "Statim" (P.C.B. 6/32), Office of this Paper.

PILL and Tablet Maker requires post; in charge of department for some years; take charge or work single-handed; up to date in all branches; willing to go abroad. Hartland, 17 Elphinstone Street, Highbury Park, N. 5.

REPRESENTATIVE in the Midlands; can command business in Toilets, Perfumery, and Proprietary Goods. Apply 149/16, Office of this Paper.

SALESMAN, Manager, or Buyer in the Chemical trade; 37; single; 15 years' experience as Junior to Departmental Manager, 1 year as Buyer and Salesman to Chemical Merchants, also 2 years' experience as Manager of Chemical Department for General Merchants. M.L. 2915/21, Office of this Paper.

TRAVELLER or Salesman; 34; ex-Service man; married; long experience as Salesman, Chemists' Sundries; willing to go abroad. M.L. 4286, Office of this Paper.

WORKS Manager; 31; married; six years as Chief Clerk to Merchants, and 1½ years Departmental Manager, Chemical Merchants; knowledge of commercial Buying and Selling, Typewriting and Bookkeeping. M.L. 93449, Office of this Paper.

YOUNG man, University trained, with good knowledge Chemistry and Wholesale experience, seeks position as Representative to Chemical firm; would accept nominal salary for short time while learning business; interviews desired. 146/30, Office of this Paper.

We desire particularly to draw the attention of Colonial and Foreign Subscribers to the fact that in cases where they require partners, agents or assistants, or wish to sell their businesses, an Advertisement in this Supplement, placed in every copy of "The Chemist and Druggist," should be the readiest means of helping them to attain their object. The tariff for such announcements is given under the appropriate headings in the Supplement. Instructions and remittances can be sent to us direct or through the advertisers' correspondents in this country.

SITUATIONS WANTED.

(Colonial, Indian and Foreign.)

INDIA, BURMA, AND CEYLON.

ADVERTISER, with twenty years' experience and connection with Chemists, Hospitals, Native States, etc., desires to get in touch with actual manufacturers of Heavy and Fine Chemicals, Galenicals, and Spirituous Preparations with a view to representation; permanent offices in all chief towns; high credentials; all communications treated with strict confidence. Address P.C.B. 2/5, Office of this Paper.

PHARMACIST (30) seeks position abroad; seven years' Colonial experience. Apply 137/19, Office of this Paper.

PHARMACIST (38) desires a position in South Africa; Rhodesia preferred; first-class experience in all branches of the Retail Drug trade. 146/31, Office of this Paper.

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10s. for 60 words; 1s. for every additional 10 words or less.

SECOND-HAND CHEMISTS' FITTINGS.—We have an exceptionally fine selection of these in all sizes; prices are right, and goods are in first-class condition; we shall be pleased to supply particulars and prices. Call or write, RUDDUCK & CO., 262 Old Street, London, E.C. 1.

SHOP FITTINGS.—Drug Fitting, glass-fronted Counter, Wall Cases, and Dispensing Screens for immediate delivery; lowest prices consistent with high-class work. H. Mills & Sons, Shopfitters, 163-165 Old Street, E.C. 1.

FOR Sale, 1 Bennett No. 9 (19 gallons) Power Mixer and Emulsifier, complete with belting, shafts, pulleys, etc.; also 1 new-type Shears Mulser, output nearly 20 gallons per hour, complete with gauge, belting, etc.; practically new. Apply P.C.B. 7/4, Office of this Paper.

FOR Sale, about 5,000 gross of valuable Druggists' Bottles, containing about 5 oz. bi-sulphate of soda; may be viewed by appointment; open to offer for immediate clearance. Apply 148/15, Office of this Paper.

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WANTED.

SECOND-HAND Bottles and Ointment Jars, for Chemist's Shop. Reply 144/40, Office of this Paper.

PHARMACEUTICAL Books wanted; cash offers on receipt. Gower, Bookseller, 41 Voltaire Road, Clapham.

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